

Activity report
2020

Fondation
tara océan
explore and share



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Introduction



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The Tara Ocean Foundation : unprecedented results

Exploring & sharing

The Tara Ocean Foundation is the first public interest foundation in France dedicated to the Ocean.

We carry on innovative and pathbreaking scientific research in collaboration with international laboratories of excellence to explore, understand and anticipate changes occurring in the Ocean associated with climate and environmental risks.

Our high-level scientific expertise of the highest level also contributes to raising awareness and educating young people, mobilizing policy makers and helping developing countries access this new knowledge.

A true floating laboratory, the schooner *Tara* has already traveled more than 450,000 kilometers, making stopovers in more than 60 countries during 12 major expeditions conducted in collaboration with internationally renowned scientific organizations (CNRS, CEA, EMBL, PSL, MIT, NASA, etc.).

Our major expeditions

tara
ARCTIC
2006-2008

- **TARA ARCTIC (2006-2008) :**
First Arctic drift since Nansen's expedition in 1893

TARA
OCEANS

- **TARA OCEANS (2009-2013) :**
First global study of the planktonic ecosystem

TARA
MÉDITERRANÉE
EXPÉDITION 2014

- **TARA MEDITERRANEAN (2014) :**
A study of the impact of plastics on the marine ecosystem in the Mediterranean Sea

tara
PACIFIC

- **TARA PACIFIC (2016-2018) :**
A study of coral reefs' ability to adapt to climate change

Mission
Microplastiques
2019

- **TARA MICROPLASTICS (2019) :**
First study of sources of microplastics in rivers on a European scale

MISSION IN PROGRESS

Mission
Microbiomes

TARA MICROBIOME (2020-2022)

A study of the Oceans' invisible inhabitants to preserve our future



Key numbers

- **12** missions
- **100,000** microscopic marine species revealed
- **150 millions** genes discovered in the marine world
- **200,000** viruses characterized
- **450,000** km sailed on the world's oceans
- Present on board at all times: **6** scientists, **6** sailors, 1 artist and 1 journalist
- **150 000** samples collected
- **250** scientific publications, including **8** in the leading journals Nature, Science and Cell
- **60 000** children visited *Tara* in France and around the world
- **250 000** children learned about the Ocean in their classrooms
- **2** million people visited *Tara's* exhibitions since 2004
- Annual budget of **3.5 million** euros

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Editorial

Romain Troublé, executive director of the Tara Ocean Foundation
Etienne Bourgois, president of the Foundation



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2020, a year spent with the Sars-CoV-2 virus: The global effects and impacts on our society's social, economic and financial activities have been thoroughly described in the media. For the Tara Ocean Foundation, as for most NGOs, the context wasn't conducive to the deployment of our actions.

However, despite this unprecedented crisis, the Foundation's team, together with our scientific and financial partners, demonstrated resilience and dynamism at all levels. Remobilization around the schooner in Paris after the first confinement last June was successful, as proven by the nearly 10,000 visitors welcomed aboard in 5 weeks despite the sanitary constraints. Then, during the second confinement, preparation and departure on a new 2-year expedition unified the team. More than ever the Tara crew remembers not to lose sight of the long-term stakes in the midst of this crisis.

The launch of the *Microbiome mission* on December 12, 2020 — day of the 5th anniversary of the Paris Agreement on climate change — during the second confinement, sums up the spirit and strength of this shared human adventure.

Maintenance work aboard the schooner

In 2020, the crew used the long period spent at berth to carry out maintenance work: installation of a computerized maintenance management system (CMMS); complete overhaul of certain pieces of deck machinery, and revision of electrical switchboards. *Tara* was also equipped with brand new boiler and heating system in anticipation of her upcoming stay in Antarctica.

The standing and running riggings, as well as all sails were entirely changed. Several sea trials were necessary to verify this new equipment.

Regarding machinery and energy, the spare parts inventory was consolidated, optimizing space and anticipating as much as possible "preventive" maintenance. Major future work on the main engines was identified, discussed and planned for the mid-2021 maintenance site.

Batteries and chargers were renewed. New power selectors allow for more flexible and safer operation of various energy-consuming appliances. The potentially energy-consuming oceanographic winch (with 2,000 m-long cable) can now be operated by means of its own power generator.

The emergency generator was replaced to complement the other 2 recent generators installed on the schooner. The forehold - general storage space for deck equipment, scientific material and food supplies - was emptied, entirely renovated and repainted. The stewardship area (containing food and refrigerators) now coexists without mixing with numerous boxes dedicated to scientific material and consumables, as well as spare parts for outboard motors, pulleys, shackles, winch parts, etc.

The aft portside cabin was dismantled to make room for a laboratory, and sensitive scientific equipment was set up in certain places on the schooner. On this occasion, the various systems - seawater, fresh water, drainage, electricity, inverters, communication, etc. - were verified and renewed.



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Leo Boulon, chief engineer aboard the schooner

« Maintenance sites are always teeming with people at work, technical questions and small emergencies. In a word, it's exciting. »

The Tara Ocean Foundation seen by the crew

© Marin Le Roux - Polarise



Samuel Audrain, captain

The year 2020 had its share of twists, which is not surprising given the international situation. For my part, I embarked through the Porte des Invalides and disembarked 3 months later through... the Porte des Invalides. Our awareness campaign turned into a strange, motionless "navigation" in a capital city (Paris) that quickly regained clear blue skies, clean air, and tranquility. Ducks and swans became our neighbors and sometimes we came across a mounted policeman riding along the Champs Elysées, emptied of its usual frenzy. We are sailors, so somewhat accustomed to confinement. We simply and naturally switched to maintenance mode with the feeling of living *Tara's* second "drift". As surprising as it may be for a non-sailor, maintaining onboard technology is an endless story.

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Sophie Bin, sailor & cook, stopover in Paris

2020 or how to adapt to preparing a better delayed start.. The view from the schooner at 48°51'49"N 2°18'49"E has a certain elegance. From the window behind my cooking stoves, I can see the Grand Palace, the extravagance of the Alexandre III Bridge and the Invalides. The island in the distance is île St. Louis. From our floating loft, we can see thousands of people going back and forth along the banks of the Seine. A permanent spectacle of life and a festival of questions of all kinds! Perfect! We're here to provide some answers! Enthusiastic volunteers, always active, support *Tara's* great team with discussions and awareness-raising among masked visitors. The shore team can always back us up on subjects we don't fully master. Excellent tandems composed of members of the shore and embarked teams work around the schooner, using their scientific expertise to raise awareness among a curious and inquiring audience.



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Daniel Cron, chief engineer on his last rotation

As soon as the maintenance site in Lorient ended, capricious weather made it hard for "the Whale" to navigate in the Channel and at full speed through Le Havre's lock. We managed to dismast between wind gusts and started our journey up the Seine. We were expected and timing was tight. Not even the flood could stop *Tara's* enthusiastic crew members, led by Captain Martin, from shouting with joy as the schooner's tops brushed the bottom of the Invalides Bridge. That's it! We were there: Paris! Our joy didn't last long since Covid had invited itself to the party. Then followed 55 days of lockdown at dock, in the middle of a deserted, silent capital city, where Mother Nature gradually resumed her rights. With deconfinement came the time of disembarking but also, and in a much more symbolic manner for me, the end of 10 incredible years of adventures and exceptional encounters.

Thank you a thousand times and fair winds to you, *Tara*



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Carole Pire, sailor & cook, while preparing for the Microbiome mission

The Tara Ocean Foundation's ideas on ecology and waste reduction are very close to my heart. To begin with, I established the needs and quantities necessary for life on board for a 2-year mission: grocery and dairy products, fruit and vegetables, bakery, meat, fish and seafood products, canned food, cooking utensils and appliances to be purchased or repaired, fresh water for survival, environment-friendly household products and toiletries. Then, I updated stationery items and verified sewing kit, aromatherapy pharmacy, bathroom and bed linen, mosquito nets, etc. Once this inventory done, I sought out suppliers and producers, met with them, placed orders, programmed and organized deliveries of goods. Finally, I received the goods and stored them in the many compartments of the schooner.

I was very touched by the keen interest in the Foundation shown by local suppliers and producers - their support, smiles and many gifts!

The Tara Ocean Foundation in Japan



The *Tara* Association in Japan launched its first scientific mission on October 12, 2020, in collaboration with its partner JAMBIO (Japanese Association for Marine Biology). The mission's objective is to study plastic pollution in the coastal waters of the Japanese Archipelago. Indeed, if Japan's coastlines host an important biodiversity, they are also known for their high concentration of microplastics.

The *Tara-Jambio* expedition, with a total of 21 marine stations involved, was developed according to the research model of *the Microplastics mission*.

Despite delayed beginnings related to the Covid-19 epidemic, the expedition, coordinated by Sylvain Agostini — scientific director of this mission — finally started in July 2020. Sampling will allow us to study the impact of microplastics on biodiversity and their transfer into the food web. The scientific objectives of the *Tara-Jambio* mission are to identify sources of pollution, quantify the magnitude of this plastisphere, assess the fragmentation of microplastics along Japan's coastlines, predict their dispersal to the Ocean and define their biotoxicity and impacts on marine biodiversity and food chain.

The first sampling was conducted off Shimoda (Shizuoka) in July 2020 according to established protocols. Extensive research continued in autumn 2020 in partnership with the marine stations of 6 Japanese public universities (Okayama, Hiroshima, Shimane, Kyushu, Nagoya, Tsukuba). Samples were collected on beaches, such as Awashima and Mitoyo (Kagawa), in estuaries, bays and from several offshore sites, on the water surface and in sediments.

According to the initial results, 100% of the samples contained microplastics and, among other things, various particles, polymers, polystyrene fragments and secondary microplastics (measuring less than 5 mm in diameter) and other elements used for fishing and in oyster farming.

This mission is one of the largest studies ever conducted in Japan on microplastic pollution in coastal waters and marine sediments. In parallel, awareness-raising actions and artistic residences were organized on each sampling site. Nine Japanese artists (ceramists, poets, musicians, etc.) relayed one another during this campaign to create works that will be exhibited later. Programs intended for the general public contributed to raising awareness among local inhabitants on the realities of ocean pollution through beach cleaning, microplastic sampling demonstrations, exhibitions and seminars.



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The Tara Ocean Foundation is preparing to return to the Arctic

The launch in 2020 of the United Nations Decade of Ocean Science for Sustainable Development (2021-2030) gave us an opportunity to consider [the Tara Ocean Foundation's return to the North Pole, at the heart of the glacial Arctic Ocean](#), where global warming is twice as fast as anywhere else in the world. [We've been preparing this new polar epic on both the scientific and technical levels for 3 years and more intensively in 2020 in parallel with the Tara's expeditions.](#)

Like the *Tara Arctic mission* from 2006 to 2008, [this is a very ambitious project. We are even considering building a new vessel designed to study the Arctic Ocean through the year 2045.](#) A kind of International Space Station (ISS) at the North Pole, this unique Arctic "station" will accommodate women and men on the ice cap, into the heart of the polar night. Supported by many French and international political figures and scientific institutions, this project will extend France's presence in the Arctic region and share the human adventure of research in an extreme environment. Partners are already in the process of coming aboard !





EXPLORE TO UNDERSTAND

2020 highlights



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Preservation of the Ocean in 2020: Where do we stand?

The year 2020 was to be a time of tangible progress for the Ocean: the first United Nations Ocean Conference; conclusion of negotiations at the UN on the conservation and sustainable use of marine biological diversity in areas beyond national jurisdiction; the World Conservation Congress of the International Union for the Conservation of Nature (IUCN), and definition of objectives regarding Marine Protected Areas (MPAs). Ambition to preserve the Ocean was strong. Unfortunately, due to the global pandemic all congresses were canceled or postponed, including the 2020 United Nations Climate Change Conference (COP26), which is now expected to take place in Glasgow in November 2021. However, advocacy work continued in small groups, virtual meetings, and through communication and advocacy actions on social networks.

Negotiations on marine biological diversity in areas beyond national jurisdiction, which were expected to lead to an international treaty on the conservation of the high seas, continued in virtual format. Advocacy networks maintained a solid momentum to achieve an ambitious and acceptable treaty by all countries. Thanks to its role as an observer at the UN - recently renewed for 4 years - the Tara Ocean Foundation participated in these discussions, in particular with the NGO network, High Seas Alliance, with contributions to the French and European positions.

On climate & ocean themes, the Tara Ocean Foundation kept working with institutions on ongoing processes in order to maintain a strong ambition on the Ocean & Climate nexus. In collaboration with the Ocean & Climate Platform, the Foundation was involved in the launch of the project Sea'ties, whose purpose is to bring together coastal cities in France and abroad to work on adapting to climate change. In partnership with the

Because the Ocean initiative, a strong action is being prepared for the COP26 in conjunction with the scientific project CEODOS in Chile. This initiative focuses on the impacts of climate change on the marine microbiome. The COP26, co-chaired by Chile and the United Kingdom, should show stronger ambitions regarding national compromises.



Launch of the project AtlantECO

In September 2020, 36 scientific organizations from 13 European countries launched AtlantECO, an ambitious scientific project funded by the European Union.

AtlantECO's objective is to determine the structure and function of the Atlantic microbiome in the context of ocean circulation, and also map the presence of pollutants, such as plastics. Scientists will be able to assess the role of the microbiome in the dynamics of Atlantic ecosystems at the scale of the entire basin and region. They will also investigate the microbiome's potential to be used as a sensor to inform us on ecosystem health status. The AtlantECO program will also provide information on the mechanisms by which the microbiome provides 5 ecosystem services – a key element in improving predictions of future provision of these services in the basin, and in fostering a sustainable blue growth strategy for an Atlantic community. This major scientific project is implementing the Belem Declaration, co-signed by the European Union, Brazil and South Africa in July 2017 with the aim of filling knowledge gaps between the North Atlantic Ocean and the understudied South Atlantic regions.

A transmission component intended for decision makers

With this multidisciplinary research project based entirely on the program of the *Tara Oceans mission*, AtlantECO is developing a “science to policy” component focused on evaluating the ecosystem services rendered by the Atlantic Ocean. This project will

also contribute new criteria to feed the Ocean Health Index (OHI), designed to inform policy makers about the health status of marine ecosystems around the world. On the plastics theme, a great modeling effort will be made to provide new mapping of the dispersion of plastic debris on the scale of the Atlantic basin. At the level of coastal regions and the land-sea interface, “river” protocols will be applied to analyze and understand more about the presence of microplastics in major rivers, such as the Amazon, Congo and Senegal Rivers and estuaries, including the Rio de la Plata.

Capacity building: protocols shared with other vessels and southern countries.

The project also involves interaction between *Tara* and other research vessels with training and technology transfer activities. Sampling will be carried out aboard *Tara*, then the same protocols will be applied to other oceanographic vessels and sailboats designed for science. Stopovers will be organized with local communities and participants from Atlantic countries. Large-scale capacity-building tools will be made available to professionals, students and young people.



A new expedition : *Tara Microbiome*

Understanding the invisible people of the Ocean

On December 12, 2020, 5 years after the adoption of the Paris Agreement, the schooner *Tara* left her home port in Lorient to begin a major new scientific expedition. For almost 2 years, the floating laboratory will travel 70,000 kilometers across the South Atlantic Ocean, around South America to Antarctica, and finally along the West African coast. Conceived by the Tara Ocean Foundation and our scientific partners (including the CNRS, CEA and EMBL), this mission involves 42 research structures around the world.

Tara scientists will study the Ocean's most fundamental ecosystem - the microbiome - to anticipate its future in the face of ongoing global change. Marine microorganisms are an essential component of the Ocean, accounting for more than two thirds of marine biomass. They are the first link in an immense food web that feeds a good part of humanity. These marine organisms provide many ecological and economical services: they capture atmospheric carbon dioxide on a global scale and in turn, produce a large amount of the oxygen we breathe every day. A key part of the climate machine, this invisible world and its functioning remain largely unknown today.

Aboard *Tara*, scientists will sample the marine microbiome for the purpose of carrying out major DNA sequencing and imaging efforts while measuring a wide range of environmental parameters, such as temperature, oxygen level, presence of nutrients and plastic pollution. With nearly 200 scientists involved through the Tara-GOSEE research federation and the AtlantECO program funded by the European Union, the team will focus on microbiome mechanisms and responses to major phenomena (fertilization of the oceans by rivers or icebergs, microplastic pollution) and also the increase in oxygen-free water masses as observed off Chile



Highlights of the Foundation's research programs

Advances in scientific research both at the Foundation and in our partner laboratories

Ensuring high-quality science is one of the main pillars of the Tara Ocean Foundation's activities. Hundreds of articles were published thanks to *Tara's* expeditions. In 2020, dozens of scientific publications were directly based on analysis of data derived from samples collected during our expeditions.

Biodiversity & plankton: the *Tara Oceans* consortium

The 100th publication related to the *Tara Oceans expedition* was a milestone for the consortium; a review published in *Nature Reviews Microbiology* in 2020 that summarized the group's activities to celebrate the 10th anniversary of the project. The review consisted of a summary of the discoveries concerning marine bacteria, viruses, and eukaryotes that form ocean plankton communities, as well as a description of the resources generated and the analyses enabled by their exploration.

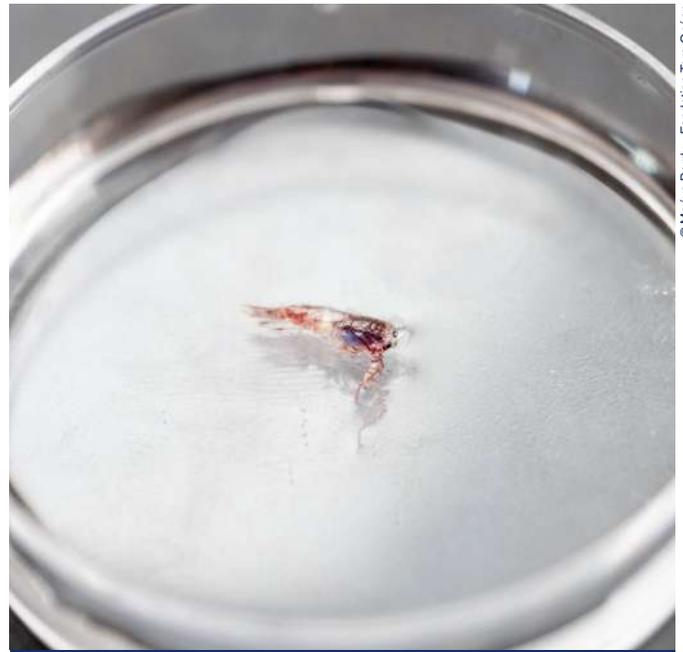
A new resource currently elaborated by the consortium is based on metagenome-assembled genomes (known as MAGs) from abundant but uncultured prokaryotes and single-celled eukaryotes (or protists). Preprints detailing these metagenomic assemblies are now available in public repositories. They are also added on a regular basis to the unprecedented genomics resources from the *Tara Oceans expedition*, which collectively represent the largest DNA sequencing effort ever performed in the Ocean.

Biodiversity & coral: the *Tara Pacific* consortium

Another major article published in 2020 in *Nature Reviews Microbiology* was a historical review of the scientific exploration of the Oceans, from the first discoveries of distant lands by marine expeditions conducted in previous centuries to the present day. This article clearly shows *Tara's* contribution and draws a parallel with the first oceanographic mission aboard *HMS Challenger* in the 1870s. Comparison of the calcified shells of foraminifera (tiny protists) in samples collected aboard *HMS Challenger* and during the *Tara Oceans* expedition in the same region of the Pacific Ocean has provided stark evidence showing the effects of ocean acidification on shell thickness during the 150 years between these two missions.

Initiated in May 2016, the *Tara Pacific* expedition aimed at better understanding and anticipating the impacts of global warming and local stress factors on coral reefs, as well as at raising awareness among the local populations about the poor state of many coral reefs in the Pacific Ocean. After 888 days at sea, *Tara* returned to her home port, Lorient, in October 2018. The schooner traveled more than 100,000 km and sampled 32 different reef systems.

Since the end of the expedition, the main objective of the scientific consortium has been to develop and standardize protocols for sequencing, metabolomics, and screening of stress markers including the characterization of telomere length. A list of topics has been established that will represent the fundamental papers on which the consortium will work. In total, this list comprises 20 papers. The consortium meets every month to discuss and share progress on each of these papers. 7 or 8 articles are now in an advanced state and will be targeted for submission to scientific journals later in the year. Some of these papers will rely on data from all 32 islands sampled, while others will be based on the results from 11 specific islands for which DNA sequencing is most advanced.



Plastics: the *Tara Microplastics* consortium

The *Tara Microplastics* expedition took place in 2019 and resulted in the collection of more than 3,000 samples. Analyses were carried out in 2020 by the 15 teams collaborating on this project to describe the quantity and composition of microplastics collected along the 9 main European rivers.

As in other Tara-based projects, extensive DNA sequencing was performed by the Genoscope in order to build the “*Tara* plastisphere database” that will bring together data with the same experimental design as the *Tara Mediterranean* (2014), *Tara Pacific* (2016-2018) and *Tara Microplastics* (2019) expeditions. This database will continue to grow with the current *Microbiome mission* (2020-2022), where both marine and river samples will be collected at river mouths and in the Pacific and Atlantic Oceans.

Tara data are available to the international scientific community

The Tara Ocean Foundation also encourages the scientists we work with to release their data into public repositories so that others can benefit. As a result, data from the *Tara Oceans* expedition has now become the go-to resource for all studies in microbial oceanography and is considered a gold-standard dataset. This has enabled the discovery by Jill Banfield of a completely new group of viruses in the ocean that infect certain kinds of bacteria. In collaboration with Nobel prize-winner Jennifer Doudna, Jill subsequently revealed that many of these viruses contain new classes of CRISPR-Cas systems that have the potential to be used for genome engineering to treat human diseases, for instance. These high-profile papers were published in *Nature* and *Science*, respectively.

Another study based on the exploration of *Tara Oceans* data and published in *Science* in 2020 showed evidence that universal genetic code has evolved over time as a response to the availability of nutrient resources in the Ocean. Other major papers have investigated data from the *Tara Oceans* expedition with the purpose of revising estimates of global biomass and microbial diversity. Numerous additional discoveries have been enabled by the genomics data generated by this mission, which currently represent the largest dataset for any planetary biome. Results from the *Tara Arctic* expedition will also be crucial to the studies being carried out by scientists from the MOSAIC project, which involved a similar Arctic drift in 2019-2020 aboard the *Polarstern* icebreaker to that performed aboard *Tara* in 2007-2008. These two missions are the only examples of drifts on the Arctic sea ice since the first attempt to reach the North Pole by Norwegian explorer Fridtjof Nansen in the 1890s. As a result, the *Tara* drift provides invaluable data to track changes in the central Arctic over the past few decades due to climate change.



2020 scientific publications

Tara Pacific

Dror, T., Flores, J. M., Altaratz, O., Dagan, G., Levin, Z., Vardi, A., and Koren, I.: Sensitivity of warm clouds to large particles in measured marine aerosol size distributions – a theoretical study, *Atmos. Chem. Phys.*, 20, 15297–15306, <https://doi.org/10.5194/acp-20-15297-2020>, 2020.

Tara Mediterranean

#1 : M.L. Pedrotti, S. Petit, B. Eyheraguibel, M.E. Kerros, A. Elianeau, J.F. Ghiglione, J.F. Loret, A. Rostan, G. Gorsky, Pollution by Anthropogenic Microfibers in North-West Mediterranean Sea and Efficiency of Microfiber Removal by a Wastewater Treatment Plant, *Science of The Total Environment*, 2020, 144195, ISSN 0048-9697.

Tara Oceans

#99: Leconte, J. et al, 2020 "Genome resolved biogeography of Mamiellales", *Genes* 2020

#100: Sunagawa, S. et al, 2020 "*Tara Oceans*: towards global ocean eco-systems biology", *Nature Reviews Microbiology*, 2020

#101: Lescot, M. et al, 2020 "Biodiversity and evolution of bacterial bioluminescence in the global ocean", *NAR Genomics and Bioinformatics*.

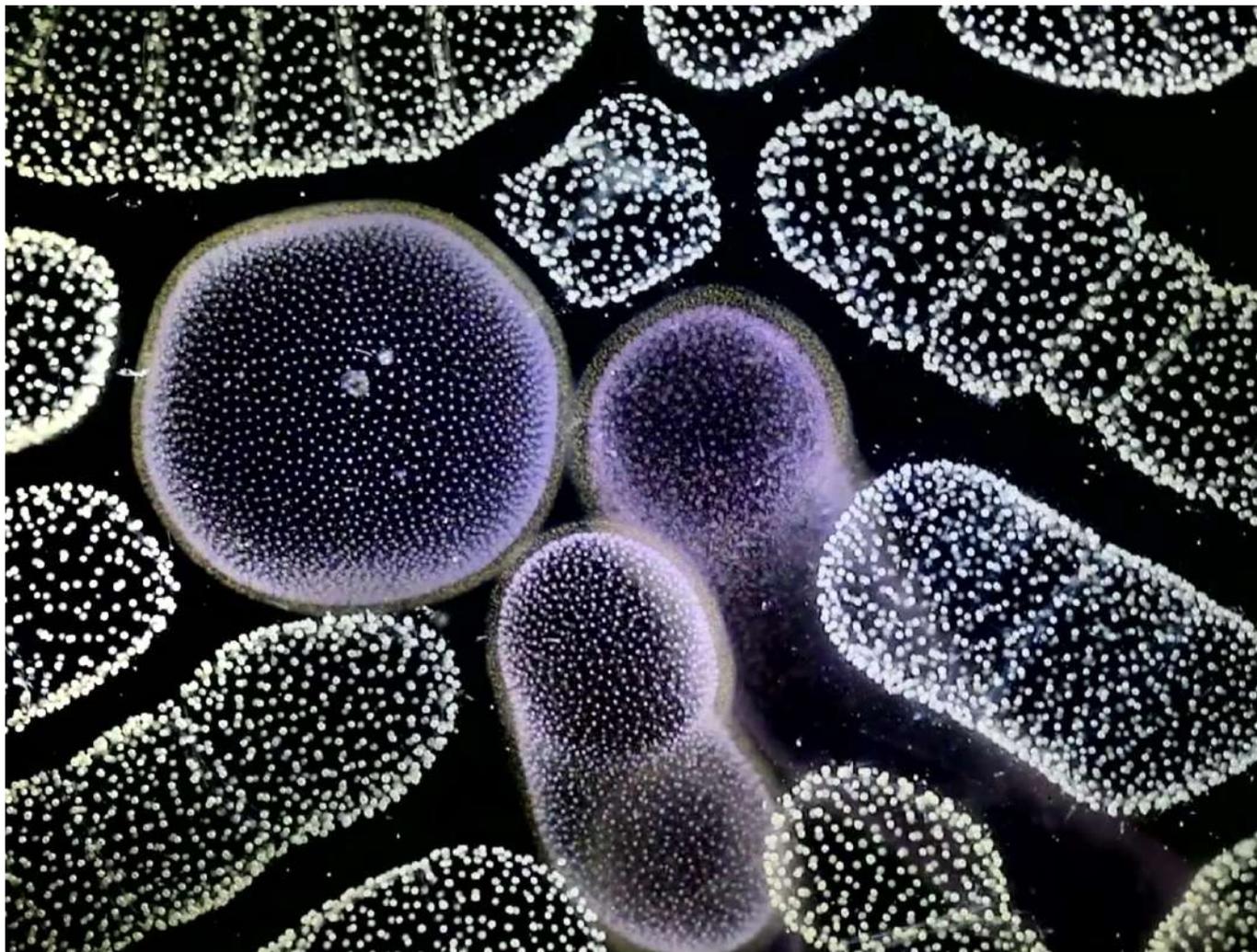
#102: Vincent, F. et al, 2020 "Diatoms Are Selective Segregators in Global Ocean Planktonic Communities", *mSystems* 2020

#103: Arrigoni, R. et al, 2020 "Towards a rigorous species delimitation framework for scleractinian corals based on RAD sequencing: the case study of *Leptastrea* from the Indo-Pacific", *Coral Reefs* 2020

#104: Vorobev, A. et al, 2020 "Transcriptome reconstruction and functional analysis of eukaryotic marine plankton communities via high-throughput metagenomics and metatranscriptomics", *Genome Research* 2020

#105: Lucena, T. et al, 2020 "*Mesonion oceanica* sp. nov, isolated from oceans during *Tara Oceans* Expedition, with a preference for mesopelagic waters", *International Journal of Systematic and Evolutionary Microbiology*, 2020

#106: Laso-Jadart, R. et al, 2020 "Investigating Population-scale Allelic Differential Expression in Wild Populations of *Oithona similis* (Cyclopoida, Claus 1866)", *Ecology and Evolution* 2020



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Outside the consortium

#107: Sanz-Sáez, I. et al, 2020 "Diversity and distribution of marine heterotrophic bacteria from a large culture collection", BMC Microbiology, 2020

#108: Endo, H. et al, 2020 "Biogeography of marine giant viruses reveals their interplay with eukaryotes and ecological functions"

#109: Pierella Karlusich, J. et al, 2020 "Exploration of marine phytoplankton : from their historical appreciation to the omics era", Journal of Plankton Research, 2020

#110: Daniel J. Richter et al, 2020 Genomic evidence for global ocean plankton biogeography shaped by large-scale current systems, bioRxiv 867739; doi: <https://doi.org/10.1101/867739>

Alicia Arroyo, Romain Iannes, Eric Bapteste, Iñaki Ruiz-Trillo. Gene Similarity Networks Unveil a Potential Novel Unicellular Group Closely Related to Animals from the *Tara Oceans* Expedition.

Genome Biology and Evolution, Society for Molecular Biology and Evolution, 2020, 12 (9), pp.1664 - 1678.10.1093/gbe/evaa117.hal-03028106



SHARE TO CHANGE





Sharing knowledge about the Ocean

Despite the difficult health situation in 2020, the Tara Ocean Foundation kept in touch with the general public thanks to our awareness-raising tools. *Tara's* stopover in Paris, unfortunately shortened, provided nonetheless a new perspective on our relationship with the Ocean and gave us the opportunity to share with the widest audience possible many of our discoveries about the Ocean's crucial role in maintaining our planet's balance. Decision makers, politicians, famous personalities, and the general public visited the schooner.

Stopovers

Paris

Tara's presence in Paris prior to municipal elections in June 2020 symbolized the hyphen between Earth and the Ocean. Through the schooner's guided tours and an educational exhibition, the Tara Ocean Foundation invited both children and adults to discover and reflect on our planet's future and our impact on the Ocean and its resources.

The exhibition entitled "*Tara*, discovering a new world: the Ocean" was set up on the banks of the Seine, where the schooner was moored. Installed in 7 shipping containers, the exhibition invited visitors to explore *Tara* as a scientific platform. Further expanded after the 2019 *Microplastics* mission dedicated to the study of plastic waste in European rivers, this event offered an almost immersive experience. Observations are conclusive: to preserve the Ocean - major ecosystem sustaining our planet's balance - it is imperative to support more ambitious and sustainable management, from land to sea.

Workshops on these issues were proposed with the presentation of an educational package designed by the Tara Ocean Foundation's teams and scientists.

During her stopover in Paris, the schooner welcomed aboard nearly **7,000 visitors and 500 students**.

Exhibition opening on March 2, 2020
Closure for health reasons on March 13
Reopening from June 10 to July 19

Lorient

On September 12, about 200 people visited the schooner. During the Festival "Les aventuriers de la Mer", 520 people and 146 students discovered *Tara*.



Awareness-raising tools

Tara Ocean, le mag

In 2020, Tara Junior, the Tara Ocean Foundation's journal for young people was renamed Tara Ocean, le mag, a magazine dedicated to the Ocean. This new formula with a print run of 205,000 copies was distributed over the summer in all Club Mickey (90,000 copies) and sent to 80,000 subscribers of the Journal de Mickey on June 8 to celebrate World Oceans Day. **10,000 copies were also distributed during Tara's stopover in Paris and the Science Festival, as well as to various associations.**



Ocean 3C

Ocean 3C is an association based in Hong Kong whose purpose is to promote the protection of the Ocean and reduce the use of disposable plastics through the concept of 3 Cs: Collaboration, Culture and Circular solutions. The Tara Ocean Foundation contributed to the drafting of an e-booklet and made available educational tools, used in particular for the "Secondary School" program involving a total of 200 students over the year. These tools will be offered to other schools in China.



Collaborations

Mickey Beach Clubs

For several years now, the Tara Ocean Foundation and Club Mickey have been working in close collaboration throughout France since the beach clubs are particularly well placed to talk about the Ocean and encourage young people to take concrete action. As aboard the schooner, questions regarding water or energy management and waste reduction arise every day in the Journal de Mickey's beach clubs, attended each year by nearly 400,000 children. In this context, a guide on good environmental practice offering a series of practical tools was created to accompany club directors and animators to reduce the impact of their activities on the environment and, in particular, on the ocean.

Virtual Regatta

Race Tara on the Vendée Globe Virtual Regatta platform — This year marked *Tara's* entry on the Virtual Regatta website alongside legendary sailboats. 225,000 people entered the race and 126,000 crossed the finish line.

Pif magazine

The recreational magazine born in 1969 arose from its ashes in 2020 with themes centered around the protection of the planet while keeping its favorite characters. To mark the publication of the 130,000 copies of the first issue, the magazine paid tribute to the Tara Ocean Foundation through a 4-page report and a new comic entitled "Gaffe à la PLasticNÈTE!" (Careful to the PLasticNET!) that takes place aboard the schooner *Tara*. Each new issue will include 8 pages of this comic to form in the end a complete album.

12 boats that will save the sea

Publication of the book: "12 bateaux qui vont sauver la mer" (Editions Vagnon). The environmental issues that threaten our planet have reached a level of severity that no one can ignore. Faced with this upsetting fact, sea lovers have chosen to respond vigorously and launch new projects - sometimes somewhat crazy - to contribute in their own way to protecting the Ocean. From the hard-working *Abeille* ships, fighting for over 40 years against environmental disasters, to the surprising *Polar Pod* that will soon drift with the Antarctic Circumpolar Current (ACC) without assistance, exploration and research ships, oil spill response vessels and low-tech and renewable energy ambassadors. 10 pages are devoted to the schooner *Tara*.



Exhibitions

TWN exhibition

In 2020, agnès b. Taiwan chose to bring plastic pollution to the fore based on the Tara Ocean Foundation's work. Several highlights: The Tara Oceans exhibition - "Plastics at sea, solutions are on land"

June / July - Eslite Sinyi store: to reduce the use of disposable materials, part of the exhibition was set up using audiovisual techniques.

September - Shoreline cleanup operation entitled "No Plastic at Sea" on the northeast coast of Taiwan. 120 people participated (ABTW staff, volunteers, media and influencers).

August / September - Social media campaign "Together for the Ocean".

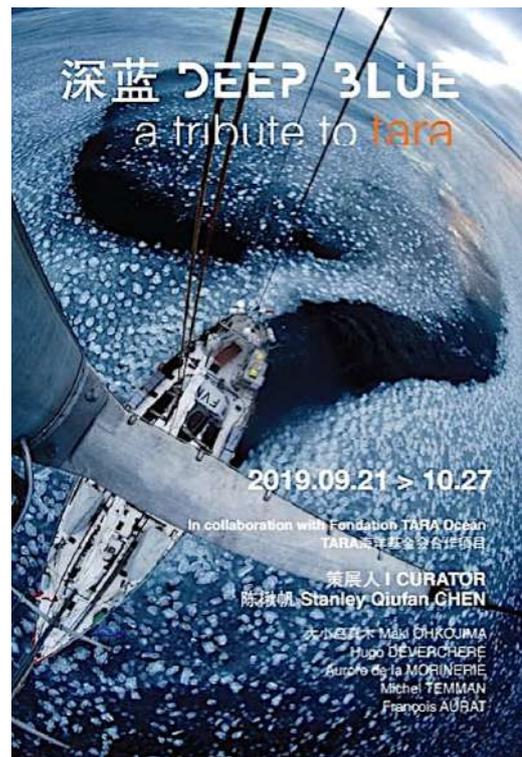
Deep blue - A Tribute to Tara

Organized in Shanghai by the Dumonteil Gallery

An exhibition promoted by the Dumonteil Gallery paid tribute to the Tara Ocean Foundation's commitment through the work of 3 artists -in-residence aboard *Tara*: Maki Ohkojima, François Aurat and Aurore de la Morinerie. Their works show the same passion that binds us and unites us to the Ocean.



© Yumiko Patouillet - Fondation Tara Océan

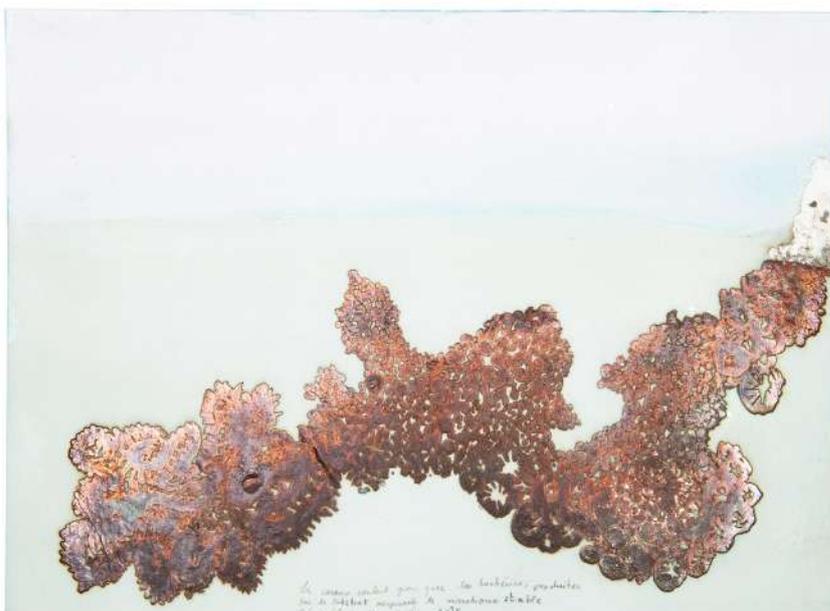


© Fondation Tara Océan

Tara, an artist's workshop

Noémie Sauve

Noémie Sauve, artist-in-residence during the *Tara Pacific* expedition in 2017, created a virtual tour of her studio. Through a series of 10 episodes of 3 to 5 minutes, she presented the various works inspired by her time aboard the schooner. This exhibition invites reflection on the Ocean and offers a new perspective through works using various media.

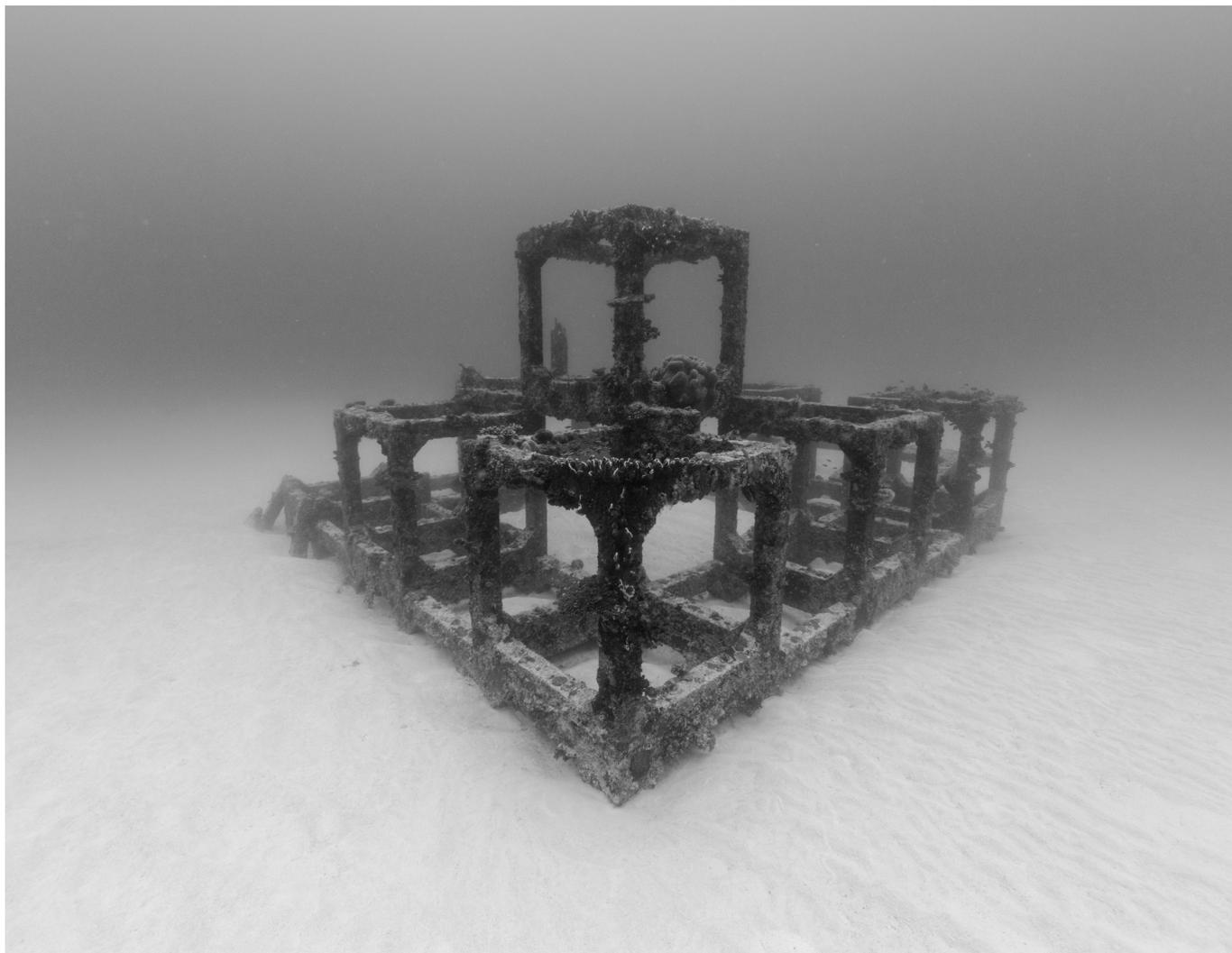


© Noémie Sauve

Nicolas Floc'h, Regional Contemporary Arts Fund (Fonds Régional d'Art Contemporain, FRAC) in Marseille

From September 25, 2020, to January 17, 2021, Nicolas Floc'h, artist-in-residence aboard *Tara* in 2017, exhibited his work about underwater landscape.

The importance of exploring the underwater world from an artistic point of view: Nicolas Floc'h's exhibition offers a unique photographic representation to stimulate imagination.



© Nicolas Floc'h



Adding the Ocean to school curriculum

Teacher training, student education and awareness-raising. The health crisis gives a peculiar shade to the review of year 2020. In the spring and during several months of confinement, teachers worked remotely. As a result, the impact of the digital, open-access educational programs proposed by the Tara Ocean Foundation was adapted to fit this "pedagogical continuity".

Although all tasks started this year were not completed, our resources played a significant role in many courses and educational projects. However, no student congress could take place in June 2020. In the fall, if curricular activities did not stop, organization changed: some classes of junior and senior high schools were split in two or attended school on alternate weeks. Teachers had to adapt and make additional efforts. The increased workload, the fear of not being able to complete the official program, exacerbated differences in levels between students and school dropout impacted some teachers' momentum towards new educational resources and the implementation of unique projects. In contrast, other teachers drew upon the Tara Ocean Foundation's resources to create new pedagogical content beneficial for young people whose social life was restricted.

The Foundation's education division is active in classrooms throughout France and in French schools abroad, training and accompanying teachers with innovative educational resources on science/society/ocean issues.

Proposed sources of inspiration and resources for teachers are many and varied: classroom experiments, educational material, scientific documentaries on *Tara's* main themes (biodiversity, climate, plastic pollution), live videoconferences with researchers and educational operations that can be a guiding framework throughout the year.

In 2020, teachers enrolled 50,000 students (in France and around the world) in educational programs (37,000 in 2019) offered by the Foundation. Most of these resources are openly available, without the need for registration, therefore a total estimate of 83,000 students seems reasonable. This increase partly results from the growing success of existing programs:

Echos d'escale addresses sustainable development through *Tara's* stopovers:
27,400 students participated (12,600 students in 2019)

Graines de reporters scientifiques

Ocean and climate,
 Young people investigate and produce video clips: 20 academies recruited 129 classes in 2020, representing **3,870 students**.

2020 is also the year of implementation of two new programs at the national level:



Launch of “Plastique à la loupe”

An operation of citizen science on microplastics proposed to junior and senior high school students

Students build an unprecedented database based on microplastics they collect on beaches, river banks and rivers of France, using a simple scientific protocol inspired by the OSPAR protocol. This data will feed scientific research and contribute to decision-making at the European level, as part of the Strategy Framework Directive for the Marine Environment, for instance. Le Cèdre and the Observatoire océanologique de Banyuls-sur-Mer (OOB) are the scientific project stakeholders. During the pilot phase in the first semester of 2020 **65 classes** participated (**1,800 students**). At the beginning of the school year in September, the program was followed by **165 classes** from 17 academies (**6,230 students**). A total of **7,980 students and 844 teachers** participated in the operation of citizen science in 2020.



Dans le sillage de TARA

Reactivation of the program “Dans le sillage de Tara” in the framework of the new scientific mission

This is an opportunity for classes to exchange throughout the school year with Tara’s crew members, scientists and shore team, in the form of questions and answers or during live events. **225 classes were involved during the first school term (from September to December), representing 5,260 students.**

Online education platform

The online educational platform has unrestricted access. Attendance is stable with **18,000 new downloads** added to those of previous years. Otherwise, **62,000 students** watched in their classroom documentaries on the Tara Ocean Foundation’s missions (55,600 in 2019). **A series of 10 videoconferences** followed by a discussion with researchers on 10 themes related to Ocean and Climate was initiated again in the fall (for two age groups: 7-12 and 13-18). **Nearly 10,000 students** (9,430 in 2019) from **over 400 classes** attended this event in France and abroad. They were able to enter the exciting world of plankton, dive down to the ocean floor to discover past climate, find out who climate refugees are, reflect upon the impacts of plastic pollution, understand variations in sea levels and the surface area of Arctic ice cover.

Teacher training

Teacher training is a powerful lever to develop the use of educational resources. Because of the pandemic, schools and institutions all switched to distance learning. To organize online courses, educational engineering had to be reinvented: hybrid training in several phases with half a day to a day-long sessions and one-time interventions. In total, **1,200 new teachers** participated in this training (twice the attendance of 2019).

Tara’s science in senior high school textbooks

To provide new material in science education for baccalaureate students (which is a new course in the framework of the reform of the baccalaureate), 4 out of the 5 manuals distributed to all high school science teachers (physics and chemistry, mathematics and biology) in France contextualized their activities based on Tara’s scientific missions to address a new chapter dealing with biodiversity assessment. Although effective for the past 13 years, **a strengthening of the Tara Ocean Foundation’s partnership with the Ministry of National Education** also marked 2020 **with the signing of a framework agreement** with Minister Michel Blanquer aboard the schooner in June.



Advocacy: The Tara Ocean Foundation is involved in national debates and international negotiations

Our advocacy work is essential so that scientific messages are heard and contribute to the democratic debate. The Tara Ocean Foundation is a bridge between research and policy around three main themes: plastic pollution, climate and biodiversity, with the purpose of supporting decision makers in taking more concrete action.

Plastic pollution, solutions are on land!

We at the Tara Ocean Foundation consider that totally eliminating plastics in our society – in the short and medium term – is completely unrealistic. Today, use of plastic materials needs to be accompanied by the requirement to leave "zero plastic waste in nature". A new economy of plastics must be based on the logic of sustainable development and establishing a circular economy. This will require rethinking our use of plastic: eliminating unnecessary packaging and objects, developing eco-design, promoting reuse; reducing and banning problematic plastics (non-collectable, non-recyclable, toxic, etc.); and finally, implementing reliable and efficient collection and recovery systems.

Every one of us – ordinary citizens as well as political and economic decision-makers – are both the cause and the victims of plastic pollution, so the question of who is responsible is a dead end. At Tara we are joining forces with the people most capable of taking action. Let's take a look at our advocacy campaign and the strong positions we upheld in the 2020 public debate.

Draft Law against food waste and promoting a circular economy

As part of the draft Law against food waste and in favour of the circular economy, the amendments drafted by the Tara Foundation and submitted in 2019 to the National Assembly were retained and validated, a great step forward! These amendments are now part of the Law. They aim to

Regulate the use of the terms "recyclable", "recycled", "compostable" and "biodegradable" and

Ban environmental claims that mislead consumers such as "respect the environment".

Throughout 2020, the Foundation was very active in drafting decrees that clarify interpretations and contours of the Law. Our continued mobilization has been all the more crucial because the health crisis undermined the ambitions of the Law (packaging as a health barrier, etc.), in particular with regard to the objectives of:

- elimination of single-use plastic packaging for fruits and vegetables by 2021
- elimination of single-use plastic packaging by 2040
- improvement of household sorting systems by creating specific guidelines for each region
- mandatory implementation of a filtration system for micro-plastic fibers on washing machines starting in 2025.

“My Territory Charter” : No plastic in rivers means a protected Ocean

In March 2020, in association with Initiatives for the Future of the Great Rivers (IAGF) and the Compagnie Nationale du Rhône (CNR), the Tara Ocean Foundation proposed to candidates in the municipal elections, the charter "Mon territoire s'engage": rivers without plastic means a protected Ocean" to engage in the fight against plastic pollution, if elected as mayor. Today, with more than 80 signatories, the Charter urges municipalities to take action against plastic pollution. Field application of regulatory obligations; identification of territorial plastic flows and neglected sources of pollution; development of new technologies - a large number of solutions to plastic pollution are playing out at the regional level. As part of the Charter, the Foundation aims to: support elected officials and services with innovative awareness-raising and educational tools; create collaborative spaces to share experiences and successes; and work in pilot territories to develop reproducible solutions.

The charter proposes 15 measures to be implemented at the scale of regions and catchment areas. These proposals are combined into four main axes:

- Taking action against the spread of plastic waste
- Making the fight against plastic pollution a priority of the mayor's term to guide all public policies
- Transforming this challenge into an opportunity for engagement and innovation
- Acting together according to the principles of partnership and solidarity



MON TERRITOIRE S'ENGAGE :
RIVIÈRES ET FLEUVES SANS PLASTIQUE, Océan PROTÉGÉ

www.feuve-sans-plastique.fr
#feuvesansplastique

EN PARTENARIAT AVEC :



The national pact on plastic packaging

In February 2019, the Tara Ocean Foundation joined the National Pact on Plastic Packaging, which brings together manufacturers, public authorities and NGOs with a common goal of reducing plastic pollution. Throughout the year, within various working groups with companies, the Foundation provided its scientific expertise on the impacts of plastics on the marine ecosystem, while pointing out the benefits of a circular economy to businesses.

In 2020, the Foundation continues to pursue strong ambitions to reduce, reuse and recycle plastic packaging. In discussions, which have become very technical, our contributions focus on the question of eliminating toxic packaging, with the objective of getting rid of PVC (eg: hard boxes) and PVdC (plastic covering the inside of certain cans), as well as styrenic plastics. Discussions also focused on the issue of flexible, multi-material packaging, on single-portion wrap (eg: cake or candy packaging in individual format). The Foundation also urged the signatories to make stronger commitments, particularly in terms of reducing packaging through assisted sales, bulk sales, and elimination of promotional packages, as well as in terms of recyclability and recycling.

Tara's new blue book: at the source of plastic pollution

Following the *2019 Microplastics Mission*, the Foundation published a new Tara Blue Book: At the Source of Plastic Pollution. Each new Blue Book bears witness to the latest mission when it returns from several months or years at sea. This new edition describes the first scientific observations drawn from the *2019 Microplastics Mission* and outlines research perspectives for the future. It recounts the high points of visits on board by nearly 20,000 French and European citizens. Finally, the book presents strong political recommendations to stop the flow of plastic waste from land to sea.





High Seas: aboard *Tara*, elected officials mobilize for the protection of the High Seas

In the context of the Covid-19 pandemic, negotiations currently underway at the United Nations aimed at defining the bases of common governance beyond areas under national jurisdiction, known as "BBNJ" (Biodiversity Beyond National Jurisdiction) have been delayed. Nevertheless, the Foundation remains mobilized because the stakes are enormous and urgent: the high seas represent two-thirds of the Ocean, but remain a zone of lawlessness.

A binding treaty must be established to regulate economic and scientific activities, ensure the sharing of benefits derived from the exploitation of marine genetic resources, and create the means – in particular Marine Protected Areas – to protect marine biodiversity.

During the Paris stopover, the schooner *Tara* welcomed on board **30 elected officials** (deputies) among the 180 who had signed a parliamentary resolution calling for France to favor an ambitious treaty and relay the work of scientists.

For the Foundation, the participation of politicians to give public visibility to this complex negotiation is a very good sign. Their mobilization is the result of a collaboration between Jimmy Pahun, deputy from the Morbihan, and the Ocean and Climate Platform, of which the Foundation is a member and which is currently chaired by Romain Troublé, executive director of the Tara Ocean Foundation.

Renewal of UN Observer Status

The UN has renewed the Special Observer status of the Tara Ocean Foundation for the period 2021-2025. This status responds to a need to strengthen participation of civil society in intergovernmental organizations. It allows the Foundation to support the important decisions in favour of Ocean preservation being discussed between world leaders at international nego-

tiations. The Tara advocacy team participates in commissions and works with national delegations from various countries concerning governance of the high seas, monitoring implementation of the Paris Agreement, and application of the sustainable development objective (SDG) no.14 dedicated to the Ocean.

Renewed partnership with Unesco's Oceanographic Commission

Within the United Nations Educational, Scientific and Cultural Organization (UNESCO), the Intergovernmental Oceanographic Commission (IOC) aims to promote international cooperation and coordination of scientific programs for the conservation and protection of marine environments, but also for the efficient management of resources and coastal areas.

Partners since 2015, the IOC and the Foundation renewed in July 2020 their mutual support around two objectives: to improve our understanding of marine ecosystems, and to share this knowledge with as many people as possible. Concretely, the IOC will support new research programs carried out by the Foundation on the microbiome and eventually, on the polar regions. As for the Foundation, we will contribute our expertise to improve sharing and management of marine data within the scientific community. Also, the IOC and the Foundation will collaborate to strengthen the scientific capacities of researchers from the southern hemisphere, with the aim of enabling these countries to participate fully in the processes of Ocean governance, especially on issues of climate and the high seas. Finally, educational and awareness-raising activities developed by the Foundation will be part of the "Knowledge of the Oceans" movement led by the IOC.



45 French deputies signed the "My Territory Charter" aboard *Tara*



Signature aboard the schooner *Tara* in Paris in July 2020 with Vladimir Ryabinin, executive secretary of the Intergovernmental Oceanographic Commission of UNESCO



2020 highlights

Communication from the Tara Ocean Foundation in 2020

Media coverage in 2020

1958 articles in the printed press

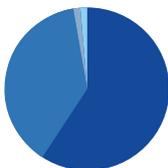
Digital ecosystem

13,553 18,405	88,592 90,923	12,887 14,422	5,719 11,582	2,990 3,933
■ 2019		■ 2020		

Tara in Paris

On February 24, *Tara* arrived in Paris and moored in the heart of the capital. This important outreach stopover took a turn that no one expected. On board, even for sailors accustomed to isolation at sea, the stopover was undoubtedly the most unique of all.

Media coverage



76 press reports
 Printed press : 45 articles
 Digital press : 29 articles
 TV : 1 program
 Radio : 1 broadcast

Social networks

478 84,258	2,859 107,637	6,852 66,527	651 28,892
■ interactions		■ participating people	

Partnership with Radio France

During *Tara's* presence in Paris, Radio France was our partner in encouraging people of all ages to dream of adventure and discovery, but also in asking how to preserve our planet and its riches.

Mathieu Vidart recorded *La Terre au carré* aboard the schooner. Click here to listen:

<https://www.franceinter.fr/emissions/la-terre-au-carre/la-terre-au-carre-06-mars-2020>

Camille Crosnier devoted her program "Camille Goes Green" to women aboard *Tara* on the occasion of International Women's Rights Day. Click here to listen:

<https://www.franceinter.fr/emissions/camille-passe-au-vert/camille-passe-au-vert-06-mars-2020>

Protection of the High Seas

Press release

Political decision-makers mobilized for the protection of the high seas 180 deputies from various parties signed the parliamentary resolution proposed by Jimmy Pahun, deputy from the Morbihan, the "Ocean and Climate" Platform and the Tara Ocean Foundation.

Since 2018, the international community has been engaged in negotiations aimed at establishing a Treaty for the Conservation and Sustainable Use of the High Seas, in addition to the United Nations Convention on the Law of the Sea.

Covid crisis: development of protective equipment

Press release

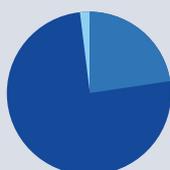
A consortium was formed in order to develop and produce rapidly, on a large scale (via 3-D printing) a type of protective equipment intended for intensive care professionals in hospitals. Initiated at Stanford University by the team of Professor Prakash, this open-source solution is an adapter for antiviral filters that attaches to EasyBreath snorkeling masks. The consortium was set up and coordinated in Europe by the CNRS and the Tara Ocean Foundation.

Charter: "My territory is engaged": No plastic in rivers means a protected Ocean"

Press release

The Tara Ocean Foundation, Initiatives for the Future of the Great Rivers, and the CNR called on candidates before the first round of municipal elections to take action by signing the initiative "My Territory is Engaged: No plastic in rivers means a protected Ocean". The 3 partners called on new mayors and second-round candidates to join this highly necessary and urgent charter, already signed by 80 elected officials.

Media coverage



53 press reports

Digital press : 75,5%
Printed press : 22,6%
Radio : 1,9%

Social networks



Twitter	Facebook	Instagram	LinkedIn
140 interactions	581 participating people	386 interactions	238 participating people
27,615	33,488	6,132	8,294

■ interactions ■ participating people

2020 highlights



June 8 World Oceans Day
A Stunning campaign

On the occasion of World Oceans Day, the Tara Ocean Foundation launched an impressive communication campaign. This was designed by the SoixanteSeize agency – where everything, including heaven and earth was turned topsy-turvy. The "tables were turned and protecting the essential began." 292 campaign posters were visible for at least two weeks in 115 metro stations (corridors, platforms, ticket offices) in Paris – Ile de France- thanks to the support of the Mediatransports advertising agency.

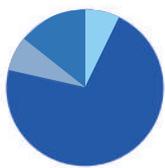
November - December 2020
Focus on awareness: an important and innovative end-of-year campaign

Building on the start of the twelfth expedition - *the Microbiome mission* - the Foundation launched two major related and consecutive digital campaigns at the end of 2020.

With a dual objective of increasing the Foundation's notoriety among the general public and a call for donations, our target audiences were exposed to our content for a total of 7 weeks between November 17 and December 31.

These media campaigns were created in Google display / Youtube but also on Facebook / Instagram.

Media coverage



14 press reports

Digital press : 71,5%
Printed press : 7,1%
TV : 7,1%
Radio : 14,3%

Social networks



Facebook campaign



Search campaign



Youtube campaign



<https://www.youtube.com/watch?v=QwirqPvMLmA>
<https://www.youtube.com/watch?v=XTAhRk-M7O0>



© Maxime Hortalville, Polaryse - Fondation Tara Océan

Microbiome Mission :
understand the microscopic life in the Ocean
to preserve our future

A communication strategy adapted to the current health crisis

On December 12, 2020, 5 years after the adoption of the Paris Agreement and after months of preparation and uncertainty, the research schooner *Tara* set sail on the *Microbiome mission* – 2 years of scientific and human adventure in the South Atlantic.

Digital imaging for the schooner's departure

For the first time in *Tara's* history, we were unable to invite the general public when the schooner departed from Lorient, given the context of Covid.

With interviews and presentations of the team in their working environment, and in the middle of preparations for the voyage, the general public and Tara community were able to experience the departure by digital means.

A preview was launched 10 days before departure on Facebook and Instagram, including some quizzes

Social networks



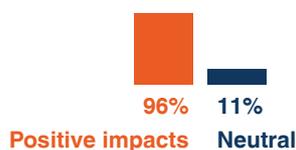
782	2,808	2,808	2,787
110,598	110,360	13,857	87,935

■ interactions ■ participating people

<p>22 Stories 43,589 interactions</p>	<p>4 Live Facebook</p>	<p>1 Live Instagram</p>	<p>TOTAL VIEWING TIME: 31:44:06</p>
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Media coverage

41 journalists present
401 media reports



Understanding the invisible people of the Ocean
to preserve our future



Thanks to you



© Floriane Guillou - Fondation Tara Océan

The Tara Ocean Foundation is independent and acts solely thanks to the support of our partners and donors. In 2020, the Tara Ocean Foundation was able to count on the support of loyal partners and donors, including the agnès b. Endowment fund, L'Oréal research, Biotherm and the Léa Nature Foundation.

It was also joined by new partners including the EDF Group Foundation, Phare d'Eckmühl and Domaines Albert Bichot.

Testimonials from our donors and partners

In 2023, the Tara Ocean Foundation will return to the North Pole for an extraordinary scientific epic (cf. p.13). To prepare for this project, it benefits from the support of partners: Capgemini Engineering, the Prince Albert II Foundation, Monaco Explorations and Dr. Frederick Paulsen. We can also count on extensive support from BNP Paribas Global Markets, which joined the project in June 2020.

Three questions answered by Alice Loevenbruck,
Sustainable Product Officer, BNP Paribas CIB

- Why did you choose to support the Foundation and in what context?

"Since 2019, BNP Paribas has been committed to responsibly funding activities likely to impact the ocean. We have thus defined criteria to frame our financing and investments in the field of maritime transport, fishing and aquaculture, underwater extraction of natural resources, renewable marine energies, and land-based activities having a strong link with the Ocean. There is an urgent need to act collectively, as UNESCO calls it, by launching, for the

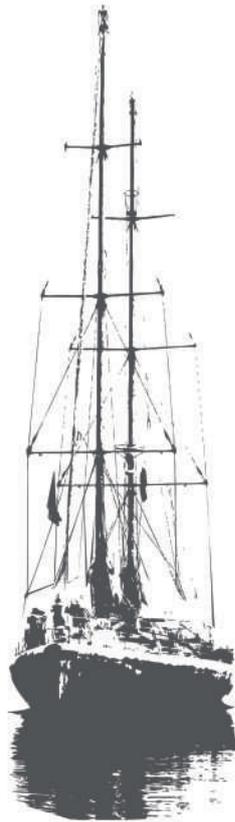
period 2021-2030, the Decade for Ocean Sciences for Sustainable Development: ten years to mobilize the international community and protect the quality of our seas and their biodiversity. By supporting the Tara Ocean Foundation, BNP Paribas continues its commitment because you produce scientific data recognized at the highest international level, while disseminating simple messages on the preservation of the Oceans to decision-makers, civil society and youth."

- How do you share this partnership with your various stakeholders and how are they interested in this subject?

"This partnership allows BNP Paribas and our clients to promote the actions of the Tara Ocean Foundation by supporting new research projects. The themes backed by the Foundation speak a lot to investors: protection of oceanic biodiversity, fight against global warming and its impacts, in particular melting sea ice, and research in order to archive the richness of marine ecosystems. The educational scope of the Foundation's actions, via the partnership with governmental National Education, is also of great interest."

- A special rendez-vous with Tara?

"Last summer, we had the chance to visit the schooner during its passage through Paris with our teams, in the presence of the entire crew of the boat! It was a great moment of exchange and meetings, which gives concrete meaning to the action we take every day to support the ecological transition together."



Fondation
taraocéan
explore and share

MAJOR PARTNER

agnès b.

PREMIUM PARTNERS



MISSION PARTNERS



SOLIDARITY PARTNER



INSTITUTIONAL SUPPORTS



MAJOR SCIENTIFIC PARTNERS



CLUB PARTNERS



EDUCATION PARTNERS



OFFICIAL SUPPLIERS



LICENSED SUPPLIERS

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ASSOCIATIONS

BEMED - GREA - MISSION BLUE - FONDATION GOODPLANET - GOODEED - CROISSANCE PLUS



www.fondationtaraocean.org



Thanks to you



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Laurence Lamy,
General Delegate of the EDF Group Foundation

The EDF Group Foundation is very proud to be a partner of the Tara Ocean Foundation, in particular for its actions to educate and raise awareness of environmental issues among young people and very honoured that it is the first environmental project supported on the occasion of our new mandate. 2020 coincides with the implementation to build a sustainable and united future for the new generations. And these are quite naturally values and aspirations that we share with the Tara Ocean Foundation and ourselves, such as protecting the environment or the ocean and raising awareness of global warming. Beyond the partnership, expertise and projects set up by *Tara*, it's also the pleasure of meeting formidable, passionate and committed teams, as we are at the EDF corporate foundation. We look forward to seeing the schooner again on the French coast in 2022.

Vernoux-Thelot family
for Association Verthe

The VERTHE association, as a family, had the chance to visit the schooner *Tara* when she was moored at the foot of the Alexandre III bridge in March 2020. We admired its laboratory and spacious living area, and met part of the team. It's fascinating to imagine this is the same boat that accomplished the Arctic drift. We are convinced the Ocean sends us back to our origins, to this matrix which allowed our cellular evolution and which still lives in us through this need for salinity which gives to taste life. The hypothesis that tomorrow the Ocean will become toxic seems unbearable to us. It's because the Tara Foundation shares this conviction that we support it with pride. In our opinion, its scientific approach is essential for understanding the fragile balance between Earth, Humans and Sea. Inhabiting the land is as much inhabiting the sea and the challenge of understanding it is our future! Thanks *Tara*.



© Fondation EDF



© Association Verthe

Appeal to the generosity of the public

Every donation counts and all support, big and small, from our donors finances the Tara Ocean Foundation's missions. In 2020, we continued our appeals for public generosity. In particular, we carried out a digital campaign at the end of the year to call for donations around the theme of the microbiome and the Foundation's new mission. To all our donors and partners who supported us in 2020, we would like to say a big and warm thank you.

To support the Tara Ocean Foundation

<https://taraexpeditions.iraiser.eu/donate/~my-donation>



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Our governance



Goals of the Foundation

The purpose of the Tara Ocean Foundation is to finance, alone or in partnership, French scientific research relating to the impact of global warming and global changes (pollution, demography, human actions in general, etc.) on ecosystems, to raise public awareness of environmental issues and to disseminate the data and results of this scientific research for educational purposes.

The Tara Ocean Foundation's means of action are:

- The organization of scientific expeditions, in particular aboard the schooner *Tara*;
- The co-production of films and organization of cultural and educational events about the expeditions organized by the Foundation and their results and/or the issues raised by these expeditions
- The organization of exhibitions, conferences, events, television broadcasts, network broadcasts, as well as the publication, reproduction and edition in all its forms and by all known or to be discovered processes, on expeditions organized by the Foundation and their results and/or the issues raised by these expeditions
- The organization of educational programs
- Providing grants and financial aid to researchers or research teams, on the impact of global warming and global changes on ecosystems, and more generally any action contributing to the enhancement of the Foundation's goals

Administration and operation

The Tara Ocean Foundation is administered by a **9-member board of directors**, made up of **3 colleges**:

- 3 members of the College of Founders: two life members: Agnès Troublé (known as agnès b.) and Etienne Bourgois; and the endowment fund "Agnès TROUBLÉ, known as agnès b." represented by an individual authorized by the legal entity.
- 4 members of the College of Qualified Personalities which includes people chosen for their competence in the Foundation's fields of activity. These are co-opted by the other members of the board of directors
- 2 members of the College of Friends of the Foundation, which includes people designated by the Association, "Friends of *Tara*". Membership of the Board of Directors of the association "Friends of *Tara*" is incompatible with membership of the Board of Directors of the Foundation, in a college other than that of the "Friends of *Tara*"
- A Government Commissioner, appointed by the Ministry of the Interior, attends the sessions in an advisory capacity and ensures compliance with the statutes and the public interest group nature of the Tara Ocean Foundation's activities



Composition of the Board of Directors

College of founding members

Etienne Bourgois, Managing Director of the Company
agnes b., President of the Tara Ocean Foundation

Agnès Troublé (known as agnès b.), Designer / Company manager

Nathalie Kistler, Company Secretary General, appointed by the “Agnès Troublé Endowment Fund, known as agnès b.”
Treasurer of the Tara Ocean Foundation

College of Qualified Persons

Eric Karsenti, Emeritus Research Director at CNRS and Associate Research Director at EMBL

Gérard Bonhoure, Honorary Inspector General of National Education

Françoise Gaill, Research Director at CNRS

Antoine Ricardou, DPLG Architect / Graphic Designer

College of Friends of the Foundation

Sylvie Duboué, Commercial Director, President of the Friends of *Tara* Association and member of the Board of the Tara Ocean Foundation

Christian de Marliave, Editor

Government Commissioner

Thierry Boisseaux representative of the Ministry for ecological and Sustainable Transition

Director General of the Foundation

Romain Troublé as Executive Director of the Tara Ocean Foundation, manages the Foundation's services and ensures its operation. He has the powers necessary for the exercise of his mission by delegation of the President. He fully attends, in an advisory capacity, meetings of the Board of Directors and the Bureau.

The Board of Directors regulates the affairs of the Foundation, **in particular:**

- It decides on the Foundation's program of action
- It adopts the report presented annually by the Bureau concerning the Foundation's moral and financial situation
- It votes (according to the Board's proposals) the budget and modifications, as well as provisions for hiring staff
- It receives, discusses and approves the accounts for the past financial year presented by the treasurer with supporting documents
- It adopts (according to proposals by the Board) the internal regulations
- It accepts donations and bequests and affects the proceeds and authorizes, apart from the day-to-day management, acquisitions and disposals of movable and immovable property, markets, leases and rental contracts, the constitution of mortgages and loans as well as sureties and guarantees granted on behalf of the Foundation
- It appoints one or more auditors chosen from the list mentioned in Article L. 822-1 of the Commercial Code
- It sets the conditions for the recruitment and remuneration of staff
- It is kept informed by the Chairman of any draft agreement binding the Foundation and deliberates on agreements falling within the scope of Article L. 612-5 of the Commercial Code; in this case, it is pronounced without the presence of the person concerned

The Tara Ocean Foundation is supported by two committees: a scientific committee; and an advisory committee, the Education Pole.

Our governance



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The scientific committee

Chris Bowler, CNRS Research Director, and since 2010 head of the Environmental and Evolutionary Genomics Section at the Biology Institute of the École Normale Supérieure (IBENS, CNRS / ENS).

Eric Karsenti, Emeritus Research Director at CNRS and Associate Research Director at EMBL.

Françoise Gaill, Research Director at CNRS

Gaby Gorsky, Former Director of the Oceanological Observatory of Villefranche-sur-Mer / UPMC-CNRS.

Patrick Wincker, Research Director at CEA and Director of Genoscope - National Sequencing Center.

Colomban de Vargas, Research Director at CNRS and is Director of the EPEP team at the Roscoff Biological Station.

Serge Planes, Scientific Director of the Tara Pacific expedition, CNRS research director at the Insular Research Center and Environmental Observatory (CNRS / EPHE / UPVD).

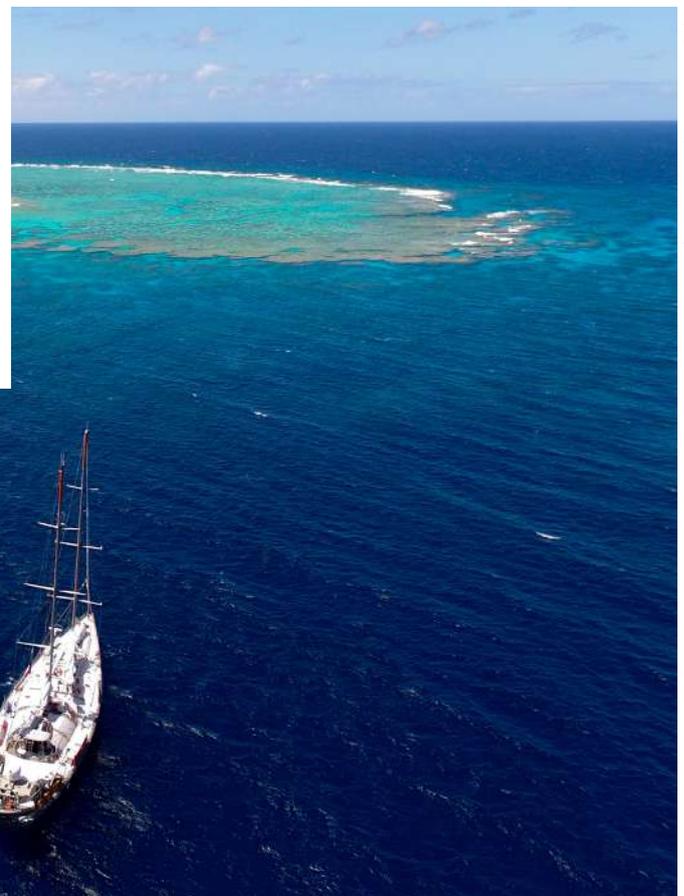
The Education Pole advisory committee

Gérard Bonhoure, Honorary Inspector General of National Education.

Florence Clément, ADEME.

Sabine Lavorel, French Institute of Education.

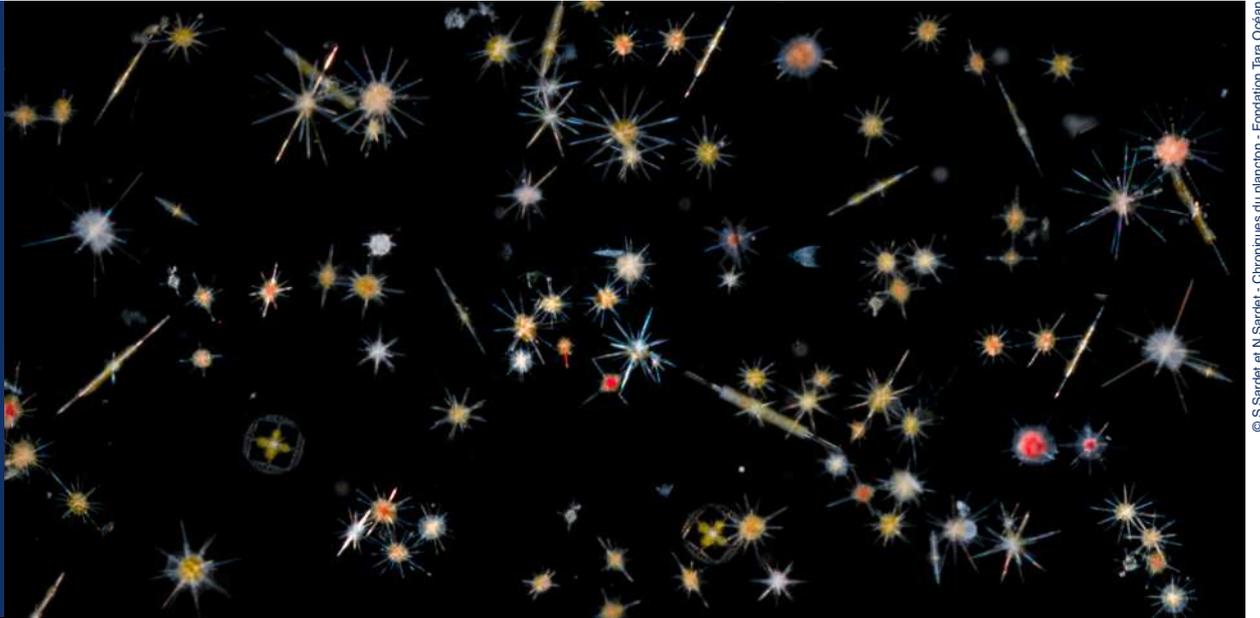
Françoise Ribola, Academy of Versailles.



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Accounting rules and methods

Change in accounting method for fiscal year 2020

The ANC 2018-06 regulation applies to accounts relating to fiscal years beginning on or after January 1, 2020. It can be applied in advance for the fiscal year in progress on its publication date (12/30/2018). The annual accounts of our entity for this closed financial year were drawn up in accordance with the provisions of the Commercial Code, the applicable specific provisions of ANC regulation 2018-06 and, in the absence of other specific provisions, those of ANC regulation 2014-03 relating to in the general accounting plan.

Intangible and tangible fixed assets

Tangible assets are valued at their acquisition or production cost, including all costs necessary to make these assets operational, after deducting trade and cash discounts and rebates.

Depreciation is calculated using the straight-line or declining balance basis, depending on the expected useful life of the assets:

- **Website** : 3 years on a straight-line basis
- **Audiovisual co-productions** : 3 years on a straight-line basis
- **Floating equipment** : 3-10 years on a straight-line basis
- **Scientific floating equipment** : 3-5 years on a straight-line basis
- **Installations and fittings** : 10 years on a straight-line basis
- **Transport equipment** : 3 years on a straight-line basis
- **Office equipment and hardware** : 3 years on a straight-line basis
- **Video & photo material** : 3 years on a straight-line basis
- **Furniture** : 3-7 years on a straight-line basis

For information, following an expert report, the schooner *Tara* was amortized over 100 years, and the rigging over 30 years.

Following the devolution of fixed assets of Tara's endowment fund to the Tara Ocean Foundation, intangible and tangible assets were depreciated over their remaining useful life.

Financial assets and investment securities

The gross value is composed of the assets' acquisition cost, excluding incidental expenses. When inventory value is lower than gross value, depreciation is recorded of the amount of the difference.

Stocks

Inventories are valued using the "first in, first out" method. Gross value of goods and supplies includes the purchase price and incidental expenses. Manufactured products are valued at their production cost, including consumption, direct and indirect production expenses, and depreciation of assets contributing to the production. Cost of the sub-activity is excluded from the stock value. Interest is always excluded from stock valuation. Where appropriate, inventories are depreciated to reflect their net realizable value at the reporting date.

Receivables and debts

Receivables and payables are measured at their nominal value. Depreciation is recorded when inventory value is lower than book value.



assets

Period ended
12/31/2020
(12 months)Period ended
12/31/2019

Fixed assets	Gross amount	Depreciation	Net amount	Net amount
Intangible assets				
Set-up costs				
Research and development costs				
Temporary donation usufruct	677,112	451,408	225,704	42,235
Concessions, patents, similar rights	211,122	179,823	31,299	
Other intangible assets				
Intangible assets in progress				
TOTAL	888,234	631,231	257,003	42,235
Tangible asset				
Lands				
Buildings				
Industrial facilities, machinery and equipment	3,185,008	637,500	2 547,508	2,336,537
Other tangible assets				84,578
Encumbered assets				
Tangible assets in progress				
Assets received in the form of legacies or donations held for sale				
TOTAL	3,185,008	637,500	2 547,508	2,421,115
Financial assets				
Interests				
Receivables from equity interests				
Other equity securities				
Loans				
Other financial assets				
TOTAL	24,500	0	24,500	25,400
	24,500	0	24,500	25,400
Total (I)	4,097,742	1,268,731	2,829,010	2,488,750
Current assets				
Inventories				
Raw materials, supplies				41,042
Goods				11,495
Inventories in progress	84,900	6,524	78,376	
TOTAL	84,900	6,524	78,376	52,537
Receivables				
Advance payments on orders				34,815
Account receivables and related accounts	25,488		25,488	99,526
Debts acquired in the form of legacies or donations				
Other receivables	1,176,628		1,176,628	
• Due from suppliers				1,730
• Staff				1,251
• Social organizations				6,220
• State, turnover taxes				1,237
• Others				1,059,020
TOTAL	1,202,116	0	1 202 116	1,203,799
Divers				
Investment securities	1,000,000		1,000,000	700,000
Treasury instruments				
Liquid assets	1,195,627		1,195,627	906,805
Prepaid expenses	24,436		24,436	81,355
Total (II)	3,507,079	6,524	3,500,554	2,944,496
Debt issue costs (III)				
Loan repayment premiums(IV)				
Conversion losses (V)				
Total assets (I+II)	7,604,820	1,275,255	6,329,564	5,433,246
Engagements				
Legacies to be fulfilled				
Accepted by statutorily competent authorities				
Authorized by the supervising authority				

liabilities	Current year	Past year
Equity		
Without repossession rights		
Equity without right of recovery		
Statutory equities	1,750,000	
Complementary equities	241,246	
Association funds without repossession rights		1,991,246
Revaluation surplus		
With repossession rights		
Other association funds		
Equities with repossession right		
Statutory equities		
Complementary equities		
Legacies and donations		
Income under control of third-party funders		
Reserves		
Statutory or contractual reserves		
Reserves for projects		
Reserves		
Other		
Carry forward	483,709	170,317
Financial year's surplus or deficit	255,188	313,392
NET FINANCIAL POSITION	2,730,143	2,474,955
Additional funds		
Expendable funds		
Investment grants	450,014	237,040
TOTAL I	3,180,157	2,711,996
Dedicated funds carried forward		
Funds carried forward related to legacies or donations	225,704	
Dedicated FFEM funds	991,429	
Dedicated funds from other resources		311,624
TOTAL DEDICATED FUNDS CARRIED FORWARD II	1,217,133	311,624
Provisions for risks		
Provisions for charges		
TOTAL PROVISIONS III	0	0
Loans and advances to credit institutions (2)		37,500
Supplier's debts and related accounts	137,736	114,555
Debts related to legacies or donations		
Tax and social debts	201,563	
Debts on fixed assets and related accounts		
Other debts		229,072
Treasury instruments		
Deferred income	1,592,975	2,028,499
TOTAL IV	1,932,274	2,409,626
Conversion gains		
TOTAL LIABILITIES	6,329,564	5,433,246



Detailed analysis of the balance sheet

Active

The Foundation has total net assets of € 6,329,564.

The main lines are as follows:

- **Intangible assets**, € 257,003 net, including in particular the website, the Tara Expeditions brand and the temporary usufruct donation for an amount of € 225,704.

The first application of ANC regulation n° 2018-06 constitutes a change in accounting method, the balance sheet and the income statement for the previous year have not been modified. In fact, no text has authorized a presentation with retroactive effect of the balance sheet and the income statement as if ANC regulation No. 2018-06 had been applied in the accounts from the opening of the previous financial year. Our foundation has decided to retroactively apply the new regulations to temporary usufruct donations. The impacts at the start of the fiscal year are as follows:

- Assets: Temporary usufruct donations: € 225,704
- Liabilities other than the "Retained earnings" item: Deferred funds related to bequests or donations: € 225,704
- Net amount, retained earnings: € 0

- **Tangible fixed assets**, for a net amount of € 2,547,508, comprising in particular the schooner, annual maintenance and repair work on the Tara ship for an amount of € 2,416,421, scientific equipment for € 68,123, and exhibition containers for € 33,917.
- **Other financial fixed assets**: a deposit of € 24,500 was paid for the premises on rue de Prague
- **Stock**, for a net amount of € 78,376 corresponds to the spare parts of the boat, fuel and the stock of derivative products.
- **Subsidies receivable** (other receivables) for an amount of € 1,176,529 include the balance of funds that will be paid in the years to come by our partners and which are the subject of an agreement: Air France Foundation for 10,000 €, BIC for € 170,000, Veolia Foundation € 20,000, CNR 2021-2022 for € 202,000, EDF Foundation for € 312,500, Brittany Region grant for € 125,000, Ademe grant for € 30,000, grant for the European program Atlanteco for € 269,907, Vitamont 2021 for € 12,500, and other agreements for a total amount of € 24,622.

- **Other marketable securities**, € 1,000,000 renewable term accounts at a rate of 0.10%.
- **Cash and cash equivalents**, € 1,195,627, including bank account balances with Neuflyze OBC and the cash registers.

Passive

- **Equity without right of recovery**, € 1,991,246, includes the donation of the Tara schooner for € 1,750,000 and the devolution of the Tara Fund for an amount of € 241,256.
- **Retained earnings**, € 483,709, including the allocation of 2019 income validated at the Board of Directors meeting on July 1, 2020
- **The result for the year** is a profit of € 255,188.
- **Investment grants**, € 450,014, correspond mainly to the share of fixed assets purchased in 2016, 2018, 2019 and 2020 for scientists under agreements with the Brittany Region and Lorient Agglomeration (€ 60,000 in 2020), the delta? coming from a CRIDF grant, the whole minus the accumulated depreciation of € 328,051.
- **The deferred funds** linked to bequests or donations, € 225,704, are linked to the new method of accounting for temporary usufruct donations from which the Foundation benefits.
- **Dedicated funds** for an amount of € 991,429 include amounts to be allocated to projects carried by the Tara Foundation within the framework of its stated purpose. This includes: the FFEM project for € 140,211, the European Atlanteco project for € 483,388 and the TPS project for € 367,830.
- **Trade payables and other** debts amount to € 137,736.
- **Tax and social debts** amount to € 201,563.
- **Prepaid income**, € 1,592,975, mainly corresponds to grants to be received from multi-year agreements.



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	Current year	Past year
Operating revenues		
Contributions		
Sales of goods and services		
Sales of goods including sales of in-kind donations	82,538	
Sales of services including sponsorship	187,533	
Sales of goods	160,000	19,275
Production sold - services		196,945
Net operating revenues		216,220
Revenues from third party financiers		
Operating grants		345,049
Public contributions and operating grants	676,272	
Contributions from founders or consumption of expendable endowment		
Resources related to public generosity		
Manual donations	209,783	
Sponsorship	1,151,351	
Legacies, donations and life insurance		
Financial contributions	1,604,183	
Write back of depreciation, amortization, provision and cost transfers		
Use of dedicated funds	22,099	59,705
Carry forward of unused resources from prior financial years	171,414	
Other products	5,241	478,815
		2,192,301
TOTAL OPERATING REVENUES I	4,110,415	3,292,089
Operating Expenses		
Purchase of goods	29,387	3,812
Changes in goods stock	-29,101	6,983
Purchases of raw materials and other supplies		60,825
Changes in stocks of raw materials and other supplies		-2,224
Other purchases and external charges	1,659,073	
Purchases of non-stocked items		127,380
External services		682,170
Other external services		933,505
Financial supports		
Taxes, duties, and other levies	92,589	70,180
Salaries and wages	984,660	885,231
Social costs	298,886	267,092
Depreciation and impairment charges	258,135	
On fixed assets: depreciation charges		201,273
Allocation to provision		
Allowances for impairment on current assets		3,262
Grants awarded by the organization		300
Dedicated funds carried forward	851,219	
Other charges	19,759	332
TOTAL OPERATING EXPENSES II	4,164,607	3,240,122
OPERATING RESULTS (I-II)	-54,193	51,967

	Current year	Past year
Financial products		
From equity interests	226,237	226,159
Other investment securities and fixed asset receivables		8
Other interest and assimilated income		
Reversals of provisions and cost transfers		
Positive foreign exchange differences	72	
Net income from sales of marketable securities		
TOTAL FINANCIAL INCOME III	226,309	226,167
Financial expenses		
Depreciation, amortization and allocation provisions		
Interest payable and similar charges	238	982
Foreign exchange losses	167	102
Net charges on sales of marketable securities		
TOTAL FINANCIAL EXPENSES IV	406	1,084
FINANCIAL RESULTS (III-IV)	225,903	225 083
FINANCIAL RESULTS (III-IV)	171,711	277 050
Extraordinary income		
Extraordinary income on management operations		
Extraordinary income on capital transactions	97,027	80,663
Reversals of provisions, depreciation and cost transfers		
TOTAL EXTRAORDINARY INCOME V	97,027	80,663
Extraordinary expenses		
Extraordinary expenses on management operations	921	
Extraordinary expenses on capital transactions		17,359
Depreciation, amortization and provision charges		
TOTAL EXTRAORDINARY EXPENSES VI	921	17,359
EXTRAORDINARY RESULT (V-VI)	96,105	63,304
Employee profit sharing (VII)		
Income taxes (VIII)	12,628	
Corporate taxes		26,963
TOTAL FINANCIAL PRODUCTS (I+III+V)	4,433,750	3,598,920
TOTAL EXPENSES (II+IV+VI)	4,178,562	3,285,527
SURPLUS OR DEFICIT	255 188	313 392
Revenues		
Volunteering	19,979	
Benefits in kind	379,599	
In-kind donations	87,751	
Expenses	19,979	
Assistance in kind	87,751	
Free provision of goods and services	379,599	
ServicesVolunteer staff		



Detailed analysis of the income statement

Comparability of accounts

We show below the comparison of the amounts of items in the income statement and balance sheet for the year, impacted by the change in accounting regulations, with those of the previous year using a comparable accounting method, i.e. by also applying ANC regulation n ° 2018-06 to the accounts of the previous year.

- Sales of goods: 83 K € in 2020/19 K € in 2019
- Sales of services: 188 K € in 2020/197 K € in 2019
- Public assistance and operating grants: € 676,000 in 2020 / € 345,000 in 2019
- Manual donations (210 K € in 2020), Sponsorship (1,151 K € in 2020), Financial contributions (1,604 K € in 2020) versus Other income in 2019 (2,192 K €)
- Use of dedicated funds: 171 K € in 2020/479 K € in 2019

Products

- **Merchandise sales**, € 82,538, are linked to pop-up store sales and online sales.
- **The sold production**, € 187,533, mainly corresponds to Bio-therm sponsorship for € 159,858 excluding tax and to an exchange partnership with France Info for € 10,000.
- **Operating grants**, € 676,272 include:
 - The Lorient Agglomeration grant for € 30,000,
 - The Atlanteco subsidy € 522,400,
 - The Port of Paris subsidy for € 50,000,
 - Océanomics for € 19,372,

- Subsidies linked to the educational program up to € 45,000,
- Other subsidies for € 9,500.

Resources related to public generosity:

- **Manual donations** amount to € 209,783.
- **Sponsorship** amounts to € 1,151,351.
- **Financial contributions** amount to € 1,604,183.
- **The uses of dedicated FFEM funds**, € 171,414, correspond to the expenses incurred in 2020 within the framework of this project.

Charges

Comparability of accounts

We show below the comparison of the amounts of charges for the year impacted by the change in accounting regulations, with those of the previous year using a comparable accounting method, i.e. by also applying the ANC regulation no. ° 2018-06 to the accounts for the previous year.

Other purchases and external charges:
€ 1,659K 2020 / € 1,743K 2019.

Part of the operating expenses such as re-stocking, fuel, port and stopover costs, trips and missions, Thalys telephone etc. are directly linked to the boat. They are valued at € 376,498.

The other main operating expenses are listed below:

- **Costs related to the remuneration of post-doctoral students** amount to € 66,667 within the framework of the FFEM project.
- **Costs related to the funding of laboratories under the plastic and sequencing program** amount to € 108,000.
- **Fees** for € 597,279 include fees paid for the studies required for the TPS project under development for € 141,308.
- **Expenses relating to Exhibitions:** € 78,899 for the *Tara* exhibition in Paris and € 13,260 for the development of the Microbiome exhibition.
- **Staff costs** amount to € 1,376,135.
- **Depreciation** for an amount of € 258,135 has increased compared to the previous year following work undertaken on the *Tara* ship for the future mission.
- **Carry-overs in dedicated funds,** € 851,219, correspond to expenditure commitments for future years: € 367,831 within the framework of the TPS project and € 483,388 within the framework of the Atlanteco project.
- **Financial income,** € 226,237, is mainly related to dividends received in respect the temporary usufruct donation from which the Foundation benefits.
- **Exceptional income,** € 97,027 corresponds to the share of investment grants necessary to cover depreciation and amortization of equipment acquisitions.

In 2020, the Foundation's taxable sector included a profit tax of € 12,628



Statement of financial activities

Uses of funds

	FINANCIAL YEAR N	FINANCIAL YEAR N-1
1- Social missions		
1.1. Carried out in France		
Actions implemented directly	1,248,601	
Payments to other organizations		
1.2. Carried out overseas		
Actions implemented directly		
Payments to other organizations		
2- Fundraising expenses		
Expenses for appealing to public generosity		
Expenses for seeking other funding		
3- Operating expenses	120,358	
Total uses of funds	1,368,959	
Allocation to provision		
Financial year's dedicated funds carried forward		
Financial year's surplus revenue from public generosity	217,879	
TOTAL	1,586,838	
Voluntary contributions in kind		
Financial year's uses of funds		
1. Voluntary contributions to social missions		
Carried out in France	487,329	
Carried out overseas		
2. Voluntary contributions to fundraising		
3. Voluntary contributions to functioning		
TOTAL	487,329	



Resources	FINANCIAL YEAR N	FINANCIAL YEAR N-1
1- Resources allocated to public generosity		
1.1. Collected donations and legacies		
Contributions without consideration		
Gifts, legacies and sponsorship		
Manual donations	209,783	
Legs, donations et assurance-vie		
Sponsorship	1,151,351	
Other income raised from public generosity	225,704	
TOTAL RESOURCES	1,586,838	
Reversal of provisions and depreciation		
Uses of dedicated funds from prior financial years		
Financial year's deficit related to public generosity		
TOTAL	1,586,838	
RESOURCES RAISED FROM THE GENERAL PUBLIC CARRIED FORWARD AT THE BEGINNING OF THE FINANCIAL YEAR	203,134	
Excess or shortfall related to public generosity	217,879	
Net investments or divestments related to public generosity		
RESOURCES RELATED TO PUBLIC GENEROSITY CARRIED FORWARD AT THE END OF THE FINANCIAL YEAR	421,013	
1 - Voluntary contributions related to public generosity		
Volunteering	19,979	
Benefits in kind	379,599	
In-kind donations	87,751	
TOTAL	487,329	
Funds dedicated to public generosity		
Funds dedicated to public generosity at the beginning of the financial year		
Use	0	
Carry forward		
Funds dedicated to public generosity at the end of the financial year	0	



CER analysis

With the exception of the information specifying the deferred resources linked to the generosity of the public not dedicated and not used, the information appearing in the annual use account of resources collected from the public in accordance with Law No. 91-772 of August 7, 1991 strictly correspond to information relating to the generosity of the public appearing in the income statement by origin and destination.

The deferred resources linked to public generosity, excluding dedicated funds, are the corresponding amounts at the start of the year and at the end of the year.

The amount of deferred resources linked to public generosity excluding dedicated funds at the start of the financial year is equal to the balance of available own funds collected from the public, less the share of the net book values of fixed assets or fractions of fixed assets financed by these resources over previous years.

The deferred resources linked to public generosity, excluding dedicated funds at the end of the financial year, take into account the amounts, on the one hand, of the surplus or the deficit of the public generosity of the financial year and on the other hand, net investments and divestments financed by public generosity for the year, which are specified.

The item "Net investments and divestments linked to public generosity" is deducted from the deferred resources linked to the generosity of the public and includes:

- the amount of fixed assets or shares of gross fixed assets acquired during the financial year with resources derived from public generosity;
- minus the amount of depreciation and amortization of fixed assets or fixed asset quotas acquired using resources from the generosity of the public and recorded during the year;
- minus the selling price of fixed assets or the shares of fixed assets acquired with resources from public generosity.

The resources by origin include the only resources linked to public generosity, including the amounts:

- contributions without counterpart;
- manual donations comprising the proceeds received from sales of donations in kind as well as bequests, donations, life insurance and donations made within the framework of the patronage system;
- other resources linked to generosity including the share of generosity received from other organizations and the income generated by the assets resulting from the public call for generosity in addition to the capital gains or losses on the sale of assets, with the exception of those of capital gains or losses relating to goods from bequests or donations before the date of acceptance of the bequest by the authorized body of the organization, or before the date of entry into use, if this is after or before the date of signature of the authentic deed of donation. To this total of resources for the financial year, there is added, on the one hand, the part relating to the generosity of the public of reversals of provisions and depreciations and, on the other

hand, the use of previously dedicated funds.

The principles that governed the allocation of costs are as follows:

- unallocated resources resulting from the generosity of the public are allocated, as a priority, to the coverage of social missions, after financing of operating costs up to 10%;
- in the event that a sum remains, the remainder is allocated to financing the fixed assets allocated to social missions, then the remainder of the operating costs and then, lastly, fundraising costs.

The new balance of resources collected from the public and not used at the start of the 2020 financial year was calculated by applying the same rules as those mentioned above. This results in an opening balance of € 203,134 as of January 1, 2020.

In 2020, the resources resulting from public generosity, which amounted to € 1,586,828, financed the expenses of the Foundation's social missions to the amount of € 1,248,601 and operating costs for € 120,358.

The funding surplus of € 217,879 is added to the balance from previous years and attains a carry-forward total of € 421,013.

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