



TE MANA O TE MOANA

15 YEARS OF ACTIONS REVIEW

SEA TURTLE

Understand, care for and
protect | p. 15

EDUCATION

Raise awareness,
educate and transmit | p.
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ENVIRONMENT

Combine science, nature
and culture | p. 39

IA ORA NA

“

Dear readers,

I hope you will enjoy reading this review on the activities of Te mana o te moana since 2004. We are all very proud of the association's accomplishments over the past 15 years, and we continue to set our sights ever higher for 2020 and beyond.

The challenges that our planet recently faced may serve as a stark reminder that public health and a healthy environment are inextricably linked.

It is Te mana o te moana's mission to engage actively in conservation while educating the public, and this mission has perhaps never been more important and relevant than it is today. We shall continue to dedicate all the resources we can harness to achieve this objective.

We thank you for your interest in our association and its activities, and for your generous support.



RICHARD BAILEY
CO-FOUNDER AND
PRESIDENT



”



DR. CÉCILE GASPAR
CO-FOUNDER AND EXECUTIVE
DIRECTOR

“

For 15 years, our association Te mana o te moana has worked tirelessly for the preservation of the Polynesian marine environment, and more specifically sea turtles.

Coral reefs, sea turtles, cetaceans, pollution... are key themes of our association, which continuously encourage commitment.

Please help us in developing our programs of education, research and conservation in French Polynesia. We need to produce positive and immediate changes on the health of our planet. We must act fast!

Join our network of volunteers, partners, companies and donors, who have been enabling us to act for the protection of our oceans and our planet. Together, we, human beings, stakeholders and watchmen, will go further.

”

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Multi-support visibility.

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ACKNOWLEDGEMENTS



THE ASSOCIATION

TE MANA O TE MOANA



KEY FIGURES



15

years of existence

570+

sea turtles cared for
in our Care center in Moorea

100,000+

children educated

800+

sea turtles observed
and photo-identified

6

coral gardens and
underwater trails created

900+

reported observations of **marine mammals**

460

events celebrated

160

TV reports

620

press articles

200,000

estimate of **laid eggs** on
Tetiaroa atoll

20

tons of waste
collected



PRESENTATION

Founded in 2004, the association Te mana o te moana acts for the protection of the Polynesian marine environment and more specifically sea turtles through actions of discovery, education and protection.

OBJECTIVE: Te mana o te moana's objective is to implement concrete actions to understand, educate and protect the Polynesian marine environment.

3 MAIN DOMAINS OF ACTION

- **SEA TURTLES:** Implementation of actions to understand, care for and protect the sea turtles of French Polynesia.
- **EDUCATION:** Creation of learning materials, programs and projects to raise awareness on the protection of the marine environment.
- **ENVIRONMENT:** Development and facilitation of participatory networks for collecting data combining science, nature and culture.



Te mana o te moana
"Spirit of the ocean"

THE CREATION

RICHARD BAILEY
CO-FOUNDER AND
PRESIDENT

DR. CÉCILE GASPAR
CO-FOUNDER AND
EXECUTIVE DIRECTOR

Photo credit: Alexis Rosenfeld

Veterinarian by training, having obtained a Master's Degree in Business Management, and having lived on the island of Moorea in French Polynesia since 1993, I felt a growing need, in the early 2000s, to use my time and energy for the benefit of the planet's protection. While I was working on my PhD in Marine Biology, I came to the idea of implementing a series of actions for the protection of the fauna, flora and more globally, of the marine environment. Finally, in September 2014, I founded the association with the following objectives: "Education, research and conservation of the Polynesian marine environment" bearing a name with a strong Polynesian resonance: Te mana o te moana, "Spirit of the ocean".

So naturally I asked Mr. Bailey Richard, who is very engaged in sustainable tourism, to follow me in this adventure, and his valuable and unwavering support since the beginning has been a crucial factor to our success. Furthermore, in the course of 2004, I was approached by the Direction of the Environment of French Polynesia to create a Care center for sea turtles, which integrated itself in the association's actions.

2004-2019: fifteen years of actions with an extraordinary team and ambitious results!
Thanks to your support, our commitment to a sustainable future knows no limit.

DR. CÉCILE GASPAR



TE MANA O TE MOANA CONSISTS OF:

- Close to 80 CONTRIBUTING MEMBERS
- A PERMANENT TEAM with multidisciplinary collaborators: veterinarian, doctors in marine biology, marine biologists, educators, communication specialists, project managers, etc.
- A BOARD OF DIRECTORS composed of 11 members
- 30 ACTIVE VOLUNTEERS and 60 INVOLVED in specific actions
- Around 30 Master's Degree INTERNS involved since 2005

THE INFRASTRUCTURES



Since its creation, Te mana o te moana is hosted within the InterContinental Moorea Resort & Spa.

Built in 2010, the facilities include an office, an educational room, a fare pote'e, a coral fare and a care room, where sea turtles are admitted and provided with appropriate care.

The Care center was financed by the InterContinental hotel brand, the Moorea Dolphin Center and the Pacific Beachcomber company.



PRESTIGIOUS PATRONS

Numerous local and international figures are patrons of the association: Jean-Michel Cousteau, Jean-François Clervoy, Maud Fontenoy, Mehiata Riaria... The association also had the pleasure of welcoming several prestigious visitors such as Barack Obama and the Prince Albert II of Monaco.



“ Thanks to the partnership with Te mana o te moana, Ocean Futures Society's research project on coral reefs was completed in French Polynesia. It was a great pleasure to collaborate with Cécile Gaspar and her team to carry together the message on the value of coral reefs; their importance for human beings, and the actions which need to be taken in order to protect them for future generations. Te mana o te moana carries out important work and we are very happy to collaborate with them. ”

Jean-Michel COUSTEAU - 2008
Explorer



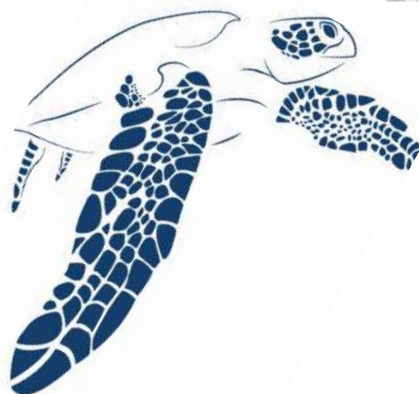
“ The sumptuousness of the Pacific Ocean, the wealth of lagoons, and the incredible biodiversity of the reefs are part of our heritage; the one we want to leave to our children. From the coast to the open sea and the beaches to the depths of the trenches the ocean provides us with valuable services. Our job is to preserve it. I share this desire with the association to provide young and older people with the constant amazement offered by the variety of blue landscapes of Polynesia. For 10 years this association has been working to increase knowledge and awareness of the marine environment and its Polynesian inhabitants, and it is with constantly renewed pleasure that I participate in their actions and fund, through the Maud Fontenoy Foundation, sea turtle tagging. We share the objective of promoting the education of children on the topic of the ocean, to help them better understand it, and to teach them how to protect it. Good luck to Te mana o te moana! ”

Maud FONTENOY - 2012
Yacht Woman



“ During this year as a patron of Te mana o te moana, I was very happy to take part in the various awareness and protection programs of the oceans, the lagoons, and the animals which inhabit them. A big thank you to the team of Te mana o te moana for the work they put in every day and for sharing their experience with pleasure and joy. My personal investment does not stop there however; I will continue to support Te mana o te moana in their future endeavours. The protection of our lagoons and its animals is our future and we can keep going further! ”

Mehiata RIARIA - 2013
Miss Tahiti 2013





PRESTIGIOUS PATRONS

JEAN-FRANCOIS CLERVOY



“

Antoine de Saint-Exupéry wrote: *"As for the future your task is not to foresee it, but to enable it"*.

This accurately describes the entire work of Te mana o te moana for the last 15 years. By protecting the ocean with concrete in situ actions and by educating tens of thousands of Polynesian children, the association contributes to building a sustainable future.

Despite appearances, and as can be seen from space, the ocean is not infinite. It is also recognized as the main source of life and it balances our biosphere.

A round of applause to Te mana o te moana, its founders, its vision and its team for its ongoing commitment, a source of inspiration to many NGOs around the world.

”

JEAN-FRANCOIS CLERVOY
ASTRONAUT AND PATRON

OUR PARTNERS



Various organizations are valued partners of Te mana o te moana: through their financial support, technical expertise, international and local reach or their valuable advice.



KEY PARTNERS

➔ PACIFIC BEACHCOMBER



PACIFIC BEACHCOMBER
FRENCH POLYNESIA

Funded the construction of Te mana o te moana's infrastructures. Also provides logistical and financial support.



➔ INTERCONTINENTAL MOOREA RESORT & SPA



INTERCONTINENTAL
MOOREA RESORT & SPA

The Hotel hosts Te mana o te moana's infrastructures: the Sea turtle care center, an educational room and offices. It also provides a logistical support on a daily basis

and enables the association to welcome schools and day camps for educational programs.

➔ THE DIRECTION OF THE ENVIRONMENT



Authorizes the association to manage a Sea turtle care center and supports its research and conservation actions for sea turtles from French Polynesia and coconut crabs on the atoll of Tetiaroa.

→ VILEBREQUIN



Supports the Sea turtle care center since 2016: helps in developing the infrastructures, in monitoring sea turtles nesting sites on Tetiaroa and in creating educational programs. A dual scope of intervention necessary to the safeguard of sea turtles.

Provides a portion of the proceeds of the Moorea Mappemonde Dots collection's sales to the association.



→ AIR TAHITI NUI



Allows the association to invite distinguished speakers and contributes to the travel costs of the association for seminars and conferences

→ UNIVAIRMER



Supports educational actions and coral restoration. Promotes sustainable tourism.

→ HINERAVA



Hinerava developed a jewelry collection "Tetiaroa Jewelry Collection".

Hinerava provides a portion of this collection's sales price to Te mana o te moana for the study of green sea turtles nesting sites on Tetiaroa.

→ FONDATION PRINCE ALBERT II OF MONACO



FONDATION
PRINCE ALBERT II
DE MONACO

The Foundation provides financial support to the "Climate change and sea turtles: Tetiaroa observatory, monitoring and cartography" project.

→ TETIAROA SOCIETY



With its financial and logistical support,

Tetiaroa Society contributes to the conservation programs taking place on the atoll of Tetiaroa focusing on sea turtles and coconut crabs.

→ MOOREA DOLPHIN CENTER



Logistically and financially supports the association in its daily activities, and enables school children to meet the residents of the Dolphin Center during educational programs.

→ IFBD



Financial support the Sea turtle care center and educational actions.

➔ JEAN-FRANCOIS CLERVOY & FRANK LEHOT

Jean-François Clervoy
& Frank Lehot

Financially supports the association's actions through the redistribution of a share of the sales of their book "The story of the space conquest".

➔ AERO-DESIGN



Created a Te mana o te moana bracelet using the emblematic turtle symbol. Redistribution of a share of the bracelet's sales to the association.

➔ UNIVERSITY OF VETERINARY MEDICINE HANNOVER



Financial and logistical support for the monitoring of the impact of rat predation on the atoll of Tetiaroa.



➔ HOTEL THE BRANDO



Financial and logistical support provided to the scientific study on sea turtle nesting sites monitoring on Tetiaroa atoll.

➔ VAN OORD



Material support to the monitoring of environmental parameters of green sea turtle nesting sites on Tetiaroa atoll.

➔ EDT

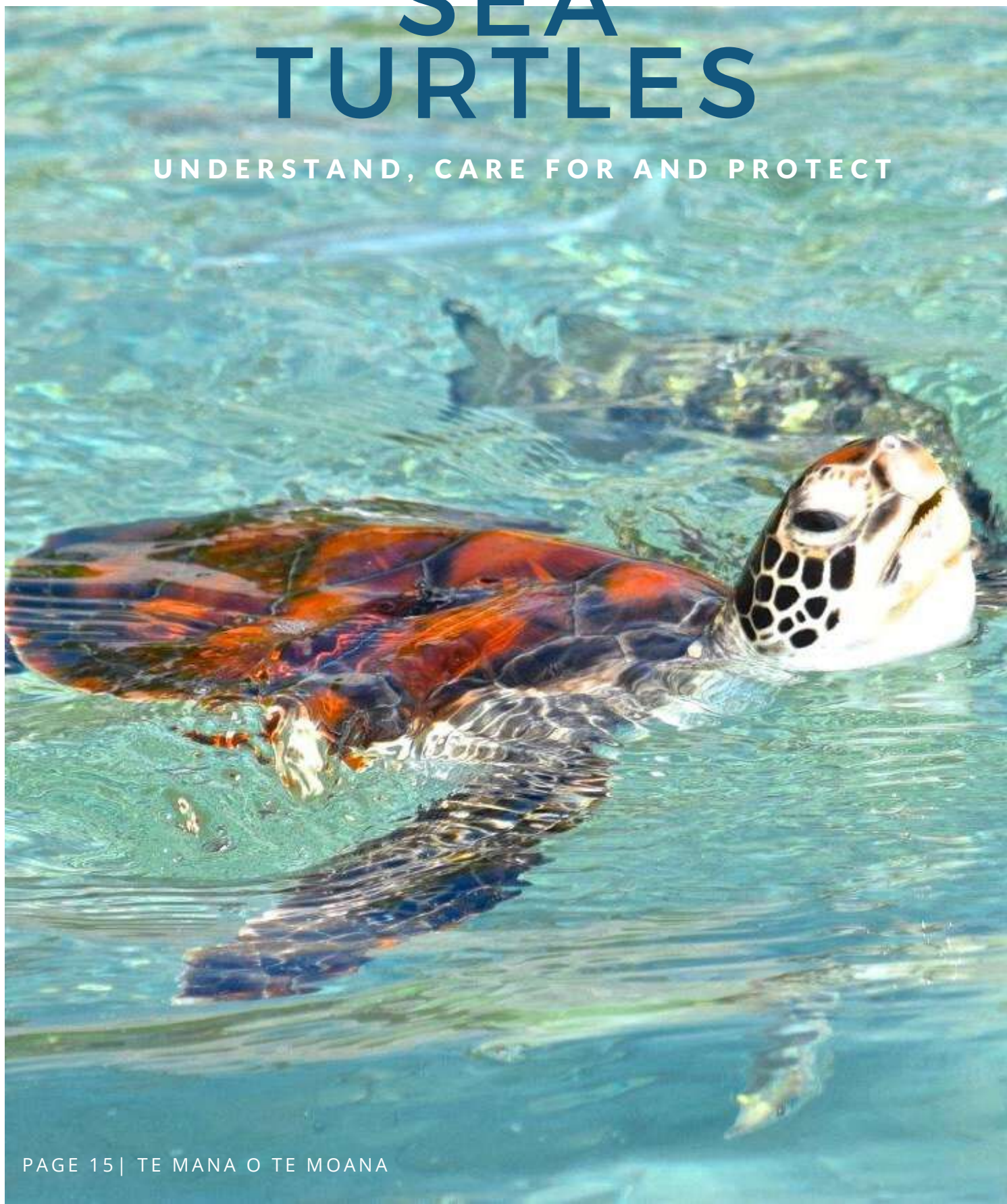


Financially supports the educational project focusing on the fight against plastic pollution in Bora Bora.

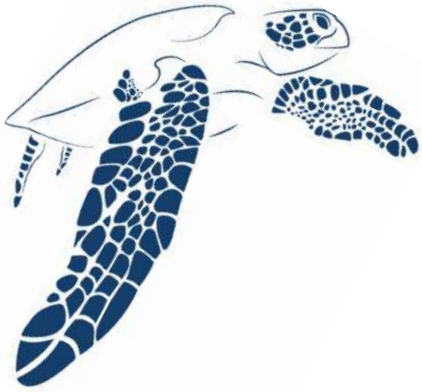


SEA TURTLES

UNDERSTAND, CARE FOR AND PROTECT



KEY FIGURES



15

years of existence for Moorea's Sea turtle care center

570+

sea turtles cared for at the Care center

4

sea turtle species treated

270+

sea turtles treated and released into the wild

59

% of sea turtles arriving at the Care center are wounded, due to human interaction

2,500

green sea turtle nests inventoried on the atoll of Tetiaroa with an estimated 200,000 eggs laid

THE CARE CENTER

MISSION

WELCOMING

sick, injured, mutilated and weakened sea turtles collected by the local population, diving centers and the authorities.

DIAGNOSIS

and care by a veterinarian, doctors in marine ecology, caretakers and marine biologists.

TREATMENTS

adapted to the identified problems.

RELEASE

into the wild as soon as health permits.

OBJECTIVE

Provide appropriate **medical monitoring** in order to release them into their natural environment.

SITE

The Care center was built in a secure, preserved area of the **InterContinental Moorea Resort & Spa's lagoon**. It holds an administrative authorization to care for injured and sick sea turtles (Decree n° 0063/MDD of 22 November 2006).

THE CARE CENTER

THE INFRASTRUCTURES

The Care center is composed of a building hosting the association's offices, a care room to medically treat and quarantine sea turtles, a lagoon located in a channel area and informative panels.



THE LAGOON

CARE CENTER LAGOON

Composed of:

- 5 nurseries designed for juveniles and intensive care.
- 1 resting pool for turtles with an handicap, that can not be released in the short term.
- 1 rehabilitation pool: the last step before release sea turtles into their natural environment.

The lagoon extends over 50m in length, 8m in width and 2m in depth. The natural current, which is significant in this area, allows the water to constantly be renewed. The quality of the water is verified on a monthly basis through bacteriological analysis.



MEDICAL CARE ROOM



OFFICE & TECHNICAL ROOM



FARE HONU (PERMANENT EXHIBITION ON SEA TURTLES SINCE JUNE 2009)



MASCOT (MADE BY MOOREA SCHOOLS)



THE CARE CENTER

THE RESIDENTS

Among the 5 species of sea turtles observed in French Polynesia, 4 species have been treated by the Moorea Care center.

However, the majority of turtles taken care of are :

- [Green turtles](#)
 - *Chelonia mydas*, more than 88%
- [Hawksbill turtles](#)
 - *Eretmochelys imbricata*, about 11%

These two species are the most frequently observed in French Polynesia.

Two other species, more rarely observed in Polynesian waters were treated at the Center:

- [the olive ridley turtle](#)
 - *Lepidochelys olivacea*
- [the loggerhead turtle](#)
 - *Caretta caretta*

GREEN TURTLE



HAWKSBILL TURTLE



OLIVE RIDLEY TURTLE



LOGGERHEAD TURTLE



SEA TURTLE

ORIGIN OF THE ARRIVALS

The majority of turtles comes from the Society Islands.

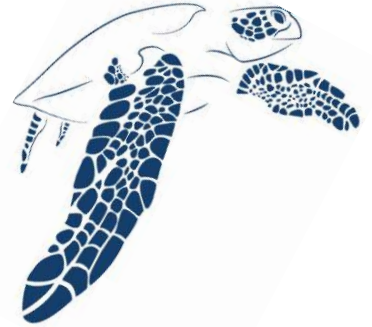
There are two types of situations for which they are brought to the Care center:

- **Sea turtles rescued in the wild:** These wild turtles are admitted to the Care center for the different causes listed below. However, in 38% of cases, the causes remain undetermined.

- **Sea turtles rescued during emergence:** During the green sea turtle nesting season, the Care center often admits weak emerging turtles or ones seized by the authorities coming from all over Polynesia.

However, the majority of hatchlings admitted are born on Tetiaroa, where the association manages since 2017, the scientific monitoring of green turtle nesting sites with the support of the Direction of the Environment, The Brando Hotel and Tetiaroa Society.

While monitoring, our team frequently discovers hatchlings turtles which are predated, weak or trapped in the nest.



POACHING

Forbidden in French Polynesia, the hunt and the capture of sea turtles still make a lot of victims.

39% of the injuries are due to poaching

NATURAL CAUSES

Sea turtles can be naturally injured, especially due to shark predation, diseases, infections, etc.

9% of the injuries are from natural causes



POLLUTION

Even in French Polynesia, marine pollution can cause serious damages to sea turtles: intestinal obstruction, imprisonment in drift nets or fishing lines or plastic ingestion, etc.

Pollution affected 6% of our residents

ACCIDENTAL FISHING

Sea turtles can be accidentally caught by non-selective fishing gear (hook, drifting or fixed nets).

This was the case for 4% of our residents



ILLEGAL CAPTIVITY

Some sea turtles have been held captive illegally by local population, often hatchlings collected at the exit of the nests.

Illegal captivity represents 4% of the arrivals

THE CARE CENTER

RELEASING REHABILITATED TURTLES

After receiving the necessary care for their rehabilitation, sea turtles which stayed at the Care center, return to the open sea.

The release of our residents is always a special moment during which we regularly invite our volunteers, partners and schools.

There are always very emotional special moments!



➞ More than 270 turtles released in the open ocean

SEA TURTLES

Presentation of some of the residents at the Care center

TORTILLA

Found without energy on the beach in front of *Motu Ahi* in Moorea, this female adult hawksbill turtle is one of the first sea turtle welcomed at the Care center on October 14, 2004. Her superficial wounds are now healed but Tortilla still has a buoyancy issue and neurological disorders, preventing her from feeding herself and swimming properly. Today, Tortilla is in the resting lagoon, a pool created specifically for her well-being. About sixty years old, she will end her days at the Care center.



TUFFY

Found in the lagoon of Tikehau atoll in 2013, this male juvenile green sea turtle had a speargun arrow on his neck and multiple wounds probably due to shocks against the reef (loss of scales above the beak and the shell). Thanks to the care provided by our team, his health has significantly improved. However, a problem of motricity and orientation still persists today. Its release to the ocean is not yet scheduled.

MOANA (which means « ocean » in Tahitian)



Found in Bora Bora on February 4, 2004 in critical condition, this young Green sea turtle was the first resident of the Care Center. Unfortunately, despite intensive care, it did not survive. Moana has been the key to the creation of the sea turtle Care center.

MATAPO (which mean « blind » in Tahitian)

This young hawksbill turtle was welcomed to the Care center on May 9, 2009, following a speargun injury in the head that made Matapo completely blind. When it arrived, Matapo was no more than 3 years old and had no appetite. A few months later, after its wounds healed, Matapo regained energy. It is still unable to feed by itself and must be assisted daily. Its release is therefore not planned.



RAVA (which means « black » in Tahitian)



Discovered by fishermen in 2018 off Moorea, this black turtle floated and had a plastic fishing net wrapped around its left front fin. It was extremely weak. Despite intensive care and an amputation, Rava succumbed to its deep-seated injuries 12 days after arriving at the Care center.

FEFE (which mean « twisted » in Tahitian)

Welcomed in September 2006 from Raraka atoll (Tuamotus Archipelago), Fefe presented a severe genetic deformation of the shell. Preventing it from swimming and eating properly, this young green sea turtle died 2 months after arriving at the Care center.



PERERAU (which mean « wing » in Tahitian)



Of the four olive ridley turtles received at the Care center, Pererau, a female adult, was brought to the Care center with a general infection with her right front fin amputated by a fishing line and deep sores on the shell margins due to shark bites. After two years of care, Pererau was able to regain the sea in May 2011 with the team of the show "Echappées belles".

HOKULEA

Hokulea is a young green sea turtle found during the 2016-2017 nesting season following the excavation of a nest on the *motu* Horoatera on Tetiaroa atoll. When it arrived at the Care center, it had small wounds all over its body, was very weak and could not swim or feed itself. After 488 days of care, Hokulea had reached an appropriate size, maintained a constant appetite and sufficient energy to be released. It was released on 12 August 2018 by HSH Prince Albert II de Monaco on a private visit to Moorea.



ARITI

Ariti is the only loggerhead turtle welcomed to the Care center. Found floating in the South of Tahiti by a fisherman, Ariti was very weak but did not seem to be injured. Treated for several months and released in May 2013 at Teahupoo. Ariti was equipped with 2 satellite transmitters. This equipment lasted for 2 years. During this time, Ariti travelled on a 13 000 km journey. A record!



COSTA LUNA



Before they are able to go back to the ocean, some of our residents need to follow a long rehabilitation at the Care center: this is what happened to Costa Luna, a young green sea turtle injured by a speargun arrow. It arrived in 2006 and was released in 2012 giving a total of 2196 days at the Care center, the longest stay!

MONITORING GREEN TURTLE NESTING SITES

Since the 2007-2008 season, and thanks to the authorizations and the support of the Direction of the Environment, the Brando Hotel and Tetiaroa Society, the association performs an annual monitoring of green turtle nesting sites on the atoll of Tetiaroa.

MISSION

Carry out an annual scientific monitoring of green sea turtle nesting sites on the atoll and monitor the evolution of environmental parameters.

OBJECTIVES

- the collection of crucial data on nesting females.
- the protection of hatchlings during the hatching phases.
- the analysis of the environmental parameters influencing the hatching success rate.
- the implementation of awareness actions to educate visitors and schoolchildren.

KEY FIGURES

Since 2007 :

- More than **14,000 km** covered by the teams of Te mana o te moana in charge of monitoring nesting sites.
- Over **3,900 traces of emerging sea turtles** inventoried and 2,500 nests containing eggs confirmed.
- An estimated total of over **200,000 eggs laid**.
- **2,000 emerging sea turtles stuck or injured** released in the ocean.
- More than **100 sick hatchlings** treated and released in the ocean.



METHODOLOGY

OF NESTING MONITORING

Monitoring of nesting sites on the beaches with **daytime and nighttime observations** carried out by marine biologists and volunteers.

The sampling effort varies from one patrol per week to several a day depending on the year and the prospected motu.

Data collected: GPS position, number of tracks, substrate quality, distance from the sea, light intensity, depth of nests, number of egg-laying attempts, size of females, number of hatched and unhatched eggs and total per nest.

TOWARDS THE FUTURE

WHY MONITOR ?

The wealth of information collected allows to gain more knowledge in the species ecology and to establish recommendations for a conservation plan, intended for local actors and conservation planners.

Understanding how sea turtles, who bore witness to millions of years of adaptation to fluctuations in their environment, are affected by global warming, can help us to better grasp the link between the climate, the ecosystems and the ecological process of resilience.

Since 2012, Te mana o te moana collects important data on the incubation temperature of nests that can strongly influence the hatching success rate and the sex ratio of hatchlings.

PHOTO-IDENTIFICATION

The scales on both sides of the sea turtles face are, like fingerprints, unique to each individual and do not change over time. Not only is the individual identification precise, it allows to learn more about individual movements depending on the number, location and frequency of photographs taken. This method is called "photo-identification". It is a non-invasive method that does not require to manipulate nor capture individuals. This process has been validated by the Direction of the Environment of French Polynesia and has been developed by researchers from Ifremer and Kelonia, based on Reunion Island.

MISSION

Collect data on the sea turtles of French Polynesia through photo-identification using the TORSOOL protocol.

OBJECTIVE

Identify the sea turtles present in Polynesian waters to better understand the status of the population and their behaviors in the long term.



KEY FIGURES

- Nearly 1,000 sea turtles inventoried in French Polynesian waters: 85 turtles from the Care center, close to 600 turtles identified through our participatory science program Hei moana and more than 250 turtles inventoried on Tetiaroa during the green sea turtle nesting seasons.
- More than 1,000 km of reef covered.
- Thanks to this method, data on turtles' movement and travel were collected and analyzed.



SATELLITE MONITORING

Placing satellite tags on sea turtles to monitor their travels and understand their distribution and migration.

Since 2010, Te mana o te moana equipped 16 sea turtles with satellite tags, many of which were set up in partnership with the Direction of the Environment. This project allowed the collection of exclusive data on three sea turtle species: the green turtle, the hawksbill turtle and the loggerhead turtle.

RESULTS

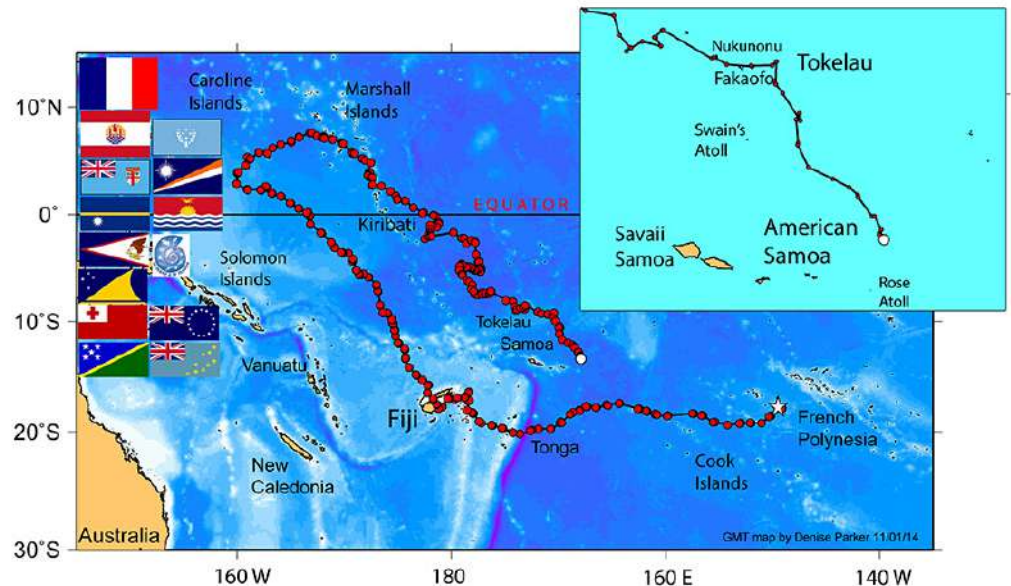
The **hawksbill sea turtles**, which had never been monitored with satellite tags before, all demonstrated limited movements around their island.

The adult **green sea turtles** migrated 5,000 km towards the West Pacific, thereby demonstrating the importance of a regional cooperation for their conservation.

Lastly, in 2013 and for the first time in French Polynesia, the **loggerhead sea turtle** monitored by satellite tag traveled over 13,000 km in the course of 530 days in the Pacific, even crossing the Equator during its travel before looping and coming back to the southern hemisphere.

FINAL MAP:

2013-2014 satellite track of loggerhead, Ariti, rescued by local fisherman and rehabilitated
Dual TAM-2639 tags ID 42717, 53771 Duty cycles offset - 8 hr on, 120 off CCL: 68.9 cm
Released 24 May 2013 Days transmitting: 531 days
Distance traveled: 13,679 km



Ariti, the loggerhead turtle equipped with two Argos transmitters.

OFFSHORE INVENTORIES

Studies and inventories led in the marine environment are essential to the understanding of sea turtles, their stocks, their distribution and their ecology which are not well-known and difficult to set up.

OBJECTIVE

A study to identify habitat areas on the reef outer edge and to record green and hawksbill sea turtle sightings in the Society Islands.

THE STUDY

The study was conducted from 2010 to 2012 in the Society Islands.

19 technicians and 21 observers were specifically trained in the "Manta-tow" method and explored the outer slopes of Bora Bora, Maupiti, Tupai, Maiao, Moorea and Tetiaroa.

In total, 450 sea turtle observations were collected, over more than 1,000 km of reefs.





EDUCATION

RAISE AWARENESS, EDUCATE & TRANSMIT



KEY FIGURES



100,000+

kids hosted and educated on environmental concerns since 2004 including over **11,000 adults**

28

educational projects conducted on various themes sea turtles, coral reefs, cetaceans, environment and waste, etc.

55+

educational materials created including board games, manuals, posters and other tools used as a teaching tool.

5

educational programs developed and currently proposed to local schools and activity centers

460+

educational events organized to educate children and adults to the importance of preserving the Polynesian marine environment

EDUCATIONAL PROGRAMS

Te mana o te moana offers year-round educational programs, projects and partnerships with schools and develops educational materials adapted to the local Polynesian context.

In the educational room, kids and adults discover while having fun the need to protect the ocean, its resources, its fauna and flora for the next generations.

DELPHINEAU RECRE



The program starts with a presentation around the theme of cetaceans and continues with educational group workshops. Then, students benefit from a demonstration given by one of the dolphins from the Moorea Dolphin Center.

HONU RECRE

Focusing on sea turtles, this program starts with a presentation about reptiles followed by educational group workshops. The program ends with the visit of the Sea turtle care center where children discover the residents and the provided care.



MOANA RECRE



Combining different themes (cetaceans, sea turtles and the environment), the program consists of an informative part and alongside educational group workshops, followed by a visit of the Sea turtle care center and of the dolphin basin managed by the Moorea Dolphin Center.

LAGON RECRE



Following a part of the program taking place in a educational area, and consisting of interactive games highlighting the richness of the marine world, children discover the coral underwater trail designed by the association in 2007. Equipped with masks, they discover the varieties of corals and learn about the specific roles of each individual in its environment.



All educational programs are adapted to the local context, approved and recognized by the General Department of Education and Teaching of French Polynesia (DGEE) for their adequacy with the current Official School Program.

Since its creation in 2004, more than 100,000 children were educated to the protection of Polynesian marine environment.



DISCOVERY VISIT



This fun and instructive visit led by an educator allows students to discover the care center and its residents, while learning to recognize the different species and a few simple actions that can be done to better protect the environment.

EDUCATIONAL ACTIONS

Educate to better protect.

In order to inform the population more broadly on the protection of the marine environment, the association educates the public and school children through several actions such as the dissemination of educational programs, the implementation of educational projects and the organization of one-day events.

THEMATIC CONFERENCES

Participation and organization of conferences focusing on various themes: cetaceans, sea turtles, coral reefs, environmental education, eco-responsibility, etc.

Delivered by marine biologists and specialized educators in favor of the local population, the teaching staff and schools.

EVENTS

Animation of one-day environmental events: Science Festival, World Oceans Day, Polynesian Turtle Day, Earth Day, etc.



fête de la Science^{fr}

- Interventions in schools of the Polynesian islands (more than 10,500 children and adults educated during the different editions organized by the association).
- Open house Days in the scientific research centers (CRIOBE, IFREMER, Institut Louis Malardé, etc.)
- Series of conferences at the University of French Polynesia, CRIOBE, Lycée hôtelier of Punaauia, House of Culture, etc.
- Creation of educational manuals in memory of the topics addressed during the festival.



EDUCATIONAL PROJECTS



Implementation of annual educational projects: Marine Educational Area Label (AME), Bula Honu, Ocean Heritage Project, Our Planet under Water, Mata ora no Tetiaroa, Manareva a pareo in space, etc.

FOCUS ON A VARIETY OF THEMES:
SEA TURTLES, CETACEANS,
ENVIRONMENTAL PROTECTION,
ETC.



MARINE EDUCATIONAL AREA (AME)

- Small coastal sea area managed in a participatory manner by students.
- Educational, eco-responsible project of knowledge and protection of the marine environment by students and young audiences.
- 24 schools have obtained the Marine Educational Area (AME) label.
- 2,600 children participated in events on the AME organized by Te mana o te moana.



* At the origin of the label creation project alongside the AFR (former Protect Marine areas Agency) , DGEE (General Department of Education & Teaching) and the Motu Haka Federation of the Marquesas islands. Member of the Steering Committee.

HONU CHEST

- Educational chest, which includes more than 30 educational material.
- Developed in partnership with educational advisors and offered to educational institutions for free.
- Translated into English, available on DVD and broadcasted in French Polynesia, in the French Overseas Collectivities & Territories and in the English-speaking South Pacific countries in partnership with the PROE.
- More than 1,800 students educated.



EDUCATIONAL PROJECTS

PGEM PROJECT

To better understand the Marine Area Management Plan (PGEM)

- Educate children from Moorea schools to better grasp the importance of a management plan for the well-being of future generations.
- 10 years' project - more than 3,000 children educated.



MATA ORA NO TETIAROA

- Combining science, nature and culture to better understand the importance of preserving biodiversity.
- Production contest aiming to showcase the richness of the atoll of Tetiaroa with 13 selected works.
- More than 700 children educated.
- 1 inter-class day of meetings to share their work.
- 1 trip to the atoll of Tetiaroa offered to the winning class.



Collecting hundreds of signatures of children from around the world on a pareo and send it into space for the duration of a space flight to give heightened resonance to these messages of hope for the Earth. Returning from their mission, the astronauts R. Linnehan and J.F. Clervoy came to French Polynesia to explain to children that it is necessary to protect the blue planet. Following this project, Jean-Francois Clervoy became a patron of the association.

In 2016, a storytelling contest was organized with 14 tales submitted. Then, the tale traveled into space alongside French astronaut Thomas Pesquet (ESA) who narrated it from space to make this slogan resonate: "From the ocean to space, preserve our blue planet".



EDUCATION

AITA
STE PEHU!



MANA HONU



MANA HONU "Aita te pehu!"

Raising awareness with concrete actions to fight against plastic pollution on Moorea:

- Creation of a MANA HONU mascot: the "wise turtle".
- Creation of posters on the impact of plastic on the local fauna and on simple eco-responsible habits to adopt.
- Creation of educational games: paper hen, game of 7 families and comics.
- Organization of educational workshops in schools - more than 500 children educated.
- Poster campaigns on Moorea's school buses.
- Conduct of an awareness campaign with Moorea's local businesses including signing a charter.
- Implementation of a Kilometer Point Sponsorship Program for Moorea including committing to frequently collecting waste in the sponsored area - 10 associations and businesses are participating in this program.
- And much more...

STOP AUX DÉCHETS !

EDUCATIONAL TOOLS

Te mana o te moana develops and gives access to several educational materials:

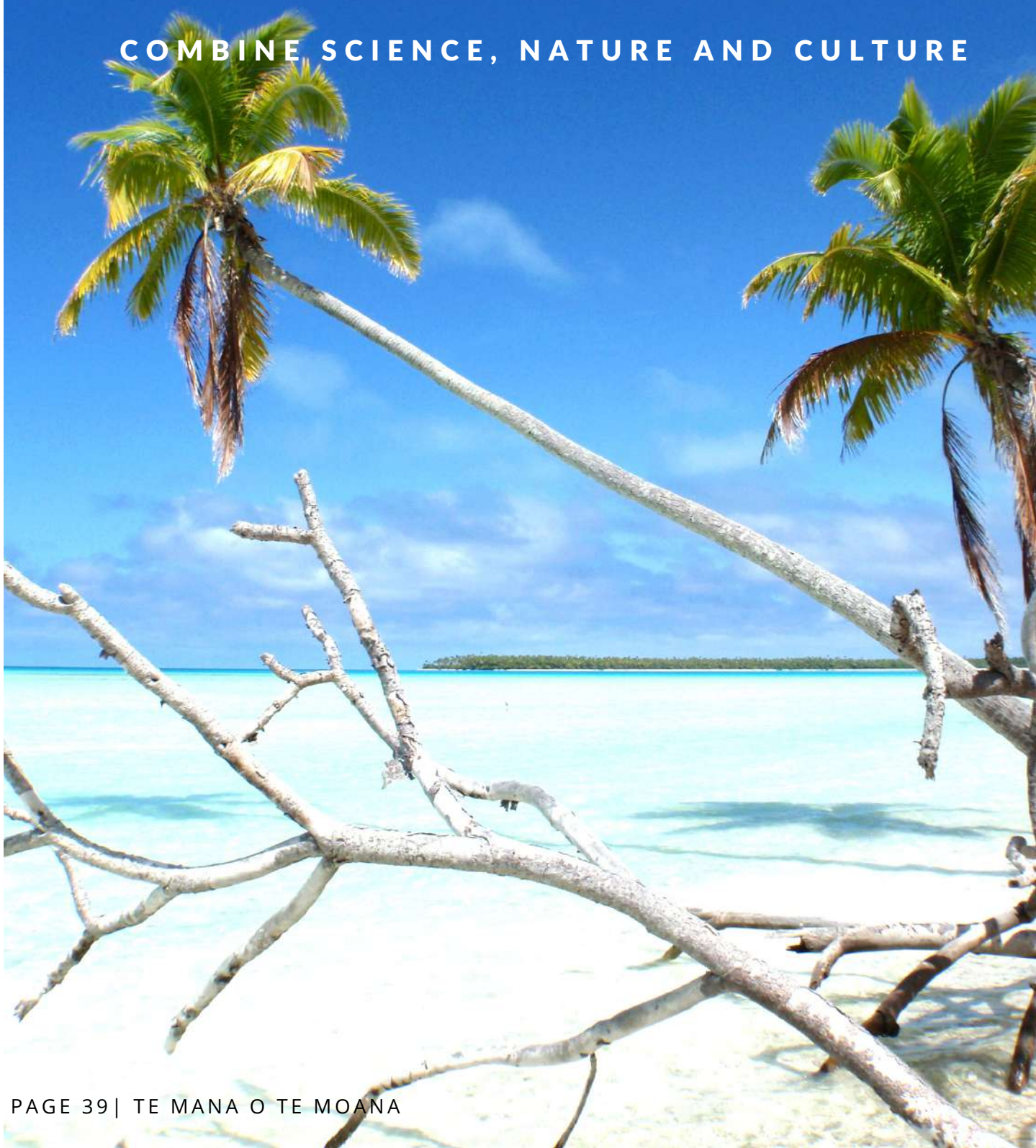
- Educational booklets on various themes: cetaceans, sea turtles, coral reefs, pearl culture, sustainable development, eco-responsible actions, pollution, etc.
- Teacher's guide
- Educational posters, board games, comics, etc.





ENVIRONMENT

COMBINE SCIENCE, NATURE AND CULTURE



KEY FIGURES



875

coconut crabs "kaveu" identified on the
atoll of Tetiaroa

9,600

eco-sentinels of the ocean trained
to Hei Moana and 17 identified
referents

3

underwater trails created

70

eco-divers trained to Reef Check

3

coral gardens created

20

tons of waste collected

"HEI MOANA" NETWORK

SENTINELS OF THE OCEAN

Educate, raise awareness and involve the general public in the observation and protection of marine ecosystems and threatened species of French Polynesia.

9,600 eco-sentinels were trained to Hei Moana and 17 referents identified.



OBJECTIVE

- Te mana o te moana trains young people and adults to become referents and participate in the collection of data on sea turtles, cetaceans and coral reefs.
- Includes a one-day training and the distribution of an educational kit: informative booklet, charter, flyers, stickers, etc.
- Target audience : adults, cycle 3 students, middle school and high school students.



SCIENTIFIC STUDY

MONITORING OF COCONUT CRABS "KAVEU" ON TETIAROA

875 crabs inventoried.



OBJECTIVE

First inventory of the coconut crab population on the atoll of Tetiaroa, as part of a larger study organized by the Direction of the Environment of French Polynesia (DIREN), which conducts of similar studies on other islands.

MISSION

The team of Te mana o te moana on Tetiaroa uses the existing protocol validated by the DIREN to study coconut crabs on selected motu:

- Inventory individuals
- Determine the male/female ratio
- Identify age categories
- Understand reproductive cycles
- Evaluate the impact of rat predation



REEF CHECK



Since 2015, Te mana o te moana is the sole representative of REEF CHECK International and is in charge of the whole program in French Polynesia (REEF CHECK France).

More than 70 eco-divers trained and 3 eco-trainers.



OBJECTIVE

International program working with local communities, governments and companies to ensure the scientific monitoring, the improvement and preservation of the coral reefs health: detecting abnormal disruptions and become better acquainted with the health status of the coral reefs.

MISSION

- Data collection contributing to an international database will help scientists to get information from the faraway islands, where no scientific monitoring is done.
- Using a simple method achievable by anyone and scientifically recognized.
- Theoretical and practical.
- Once a year, Reef Check eco-divers explore 100m of coral reefs by scuba diving and snorkeling and count some key species, that are indicators of the observed coral reefs.

CORAL REEF

CREATION OF UNDERWATER TRAILS

An underwater trail is an underwater path accessible to all, allowing the discovery of the treasures lying under the lagoon's surface.

Most of the time, the divers equipped with palms, a mask and a snorkel, follow a predefined path, often materialized by a set of buoys. Fun and informative, this activity allows visitors to become better acquainted with the coral reefs and their inhabitants and hence realize the need to preserve the marine environment.

In 2006, the association decided to develop underwater trails in French Polynesia.

3 underwater trails were created :

- The Reef Quest underwater trail located in the coral garden of the InterContinental Moorea Resort & Spa.
- The underwater trail of Tahiamanu beach on Moorea.
- The Maupiti underwater trail.



CREATION OF CORAL GARDENS

Coral restoration consists in artificially enriching poor or degraded areas in order to recreate a coral environment able to attract different kinds of species of fauna and flora, and encourage the natural colonization of the environment.

In order to do so, the transplantation and cuttings can be used. It usually goes hand in hand with scientific monitoring. Coral restoration methods can be used to enrich lagoons destined to tourists.

3 coral gardens were created :

- The coral garden of the InterContinental Moorea Resort & Spa.
- The coral garden of the InterContinental Bora-Bora Resort & Thalasso Spa.
- The coral garden of in InterContinental Resort Tahiti.



WASTE COLLECTION

Clean up campaigns regularly organized by Te mana o te moana's team alongside with volunteers and actors of the local and educational scene.

20 tons of waste collected over the past 15 years.

Plastic bottles, cups, food packaging, beverage cartons, glass bottles, cigarette butts are typical waste kinds thrown in nature.



CONFERENCES

Conferences and seminars animated by Te mana o te moana

CONFERENCE ON SEA TURTLES



Conference on sea turtles organized at the Ocean's House in Paris by our Executive Director Dr. Cécile GASPAR.

SYMPOSIUM OF THE SEA TURTLE GROUP FRANCE (GTMF)



OTHER EVENTS

- Conference on sea turtles for lawyers, legal experts and clerks of Tahiti on sea turtles.
- International conferences on conservation actions: Earth X, Monaco, Paris, Los Angeles.
- Conferences for tourism professionals, teachers, the associative sector, etc.

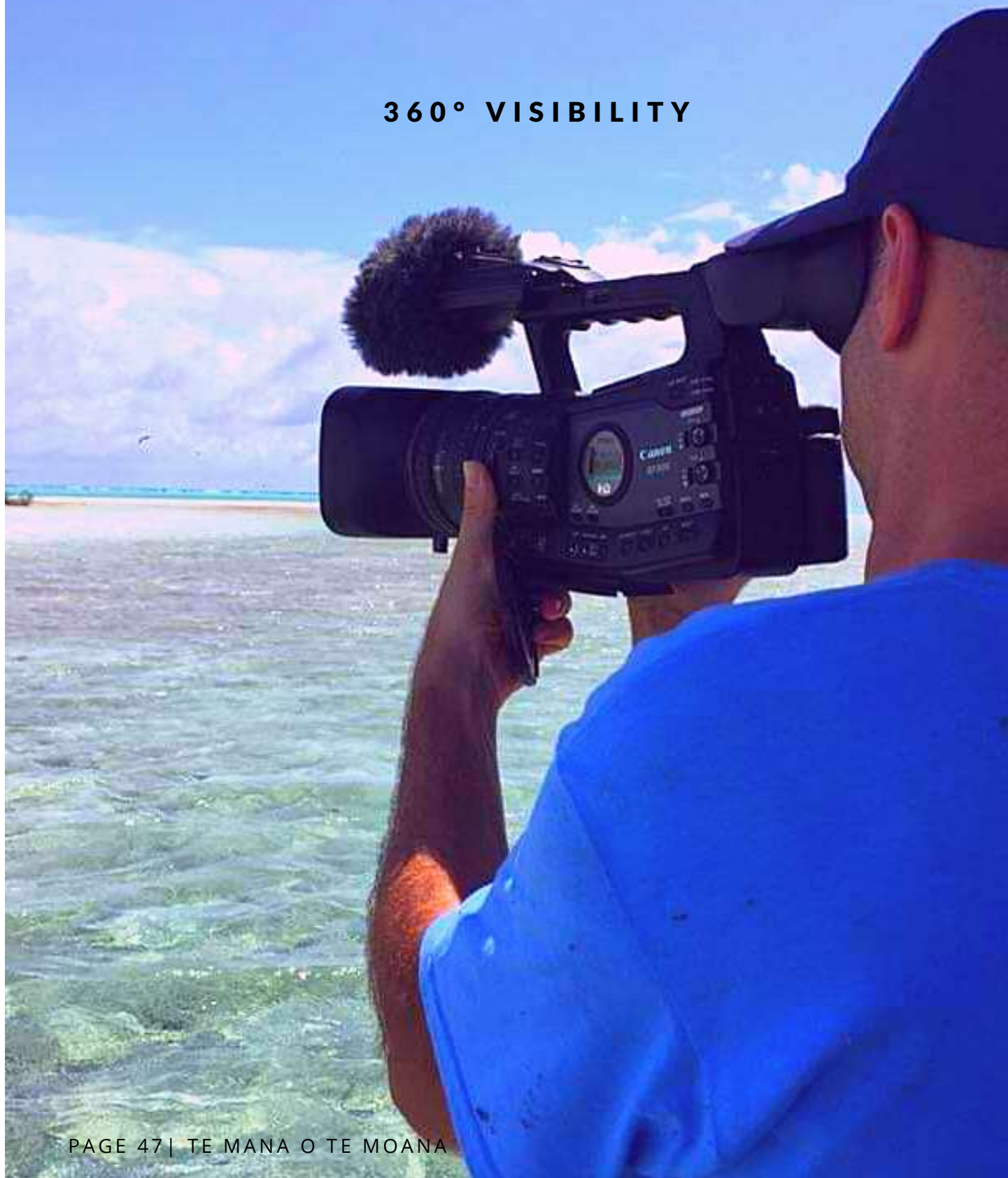
REWARDS



"Coup de chapeau" of the EDF trophy in the 'Environment & Education' category

IN THE MEDIA

360° VISIBILITY



MEDIA COVERAGE

Since 2004, Te mana o te moana has been the subject of many press articles and reports :

- In newspapers and local news magazines: La Dépêche de Tahiti, Les Nouvelles de Tahiti, Tahiti Infos, Tahiti News, etc.
- On the radio and local TV channels: Polynésie 1ère, TNTV, Radio 1, Polynésie la 1ère radio, etc.
- On national and international channels and TV shows: Des racines et des ailes, le 20 heures de TFI, le 20 heures de France 2, Thalassa, Echappées belles, Une saison à Tahiti, 30 millions d'amis, 50 minutes Inside, ABC Ocean Mysteries, Tout s'explique, C'est pas sorcier, ADN, Ushuaia TV, Mission sauvage, Radio France, CBS, King 5, Disney, Animal Planet, etc.



620
160

press articles.

reports

TV REPORTS



- **THE EXPLORERS** - GREEN SEA TURTLES PROTECTION ON TETIAROA
- **TETIAROA SOCIETY** - TETIAROA GREEN SEA TURTLE NESTING SITES
- **TNTV**
 - ÉMISSION TATOU
 - WEBZONE
 - ÉMISSION MOANA
 - "L'Ô SUR TE MANA O TE MOANA"
 - JOURNAL DU SOIR
- **POLYNÉSIE LA 1ERE**
 - KID REPORTERS
 - VEVO, LE GRAND RENDEZ-VOUS
 - AHITEA
 - JOURNAL DU SOIR
- **FRANCE 2**
 - JOURNAL DE 20H "LA CLINIQUE DES TORTUES"
 - TÉLÉMATIN
- **FRANCE 3**
 - "30 MILLIONS D'AMIS, LES RAIES DE MOOREA"
 - LES TEMOINS D'OUTRE-MER
- **FRANCE 4**
 - ÉCHAPPÉES BELLES "POLYNÉSIE, UN GOÛT DE PARADIS"
 - "UNE SAISON À TAHITI"
 - ÉCHAPPÉES BELLES "TE MANA O TE MOANA"
- **FRANCE 5**
 - LA QUOTIDIENNE "LA CLINIQUE DES TORTUES AU PARADIS POLYNÉSIE"
- **TF1**
 - LES MISS FRANCE AU CHEVET DES TORTUES MARINES
 - JOURNAL DE 20H "LES TORTUES DE TETIAROA"
 - JOURNAL DE 20H "LA CLINIQUE DE TORTUES"
 - 50 MINUTE INSIDE
- **GULLI**
 - "TAHITI QUEST"

AND MUCH MORE ...

RADIO & PRESS

- RADIO 1
- POLYNESIE LA 1ERE
- TNTV WEB
- VIRGIN RADIO
- LA DEPECHE DE TAHITI
- HINE MAGAZINE
- TAHITI INFOS
- TAHITI NEWS
- OUEST FRANCE

AND MORE...



Après l'annonce - terrible - qui a mis leurs fans à genoux, les Fréro Delavega ont tout de même pris le temps de faire une bonne action ensemble et c'est beau. Les Fréro Delavega, amoureux sans condition, d'ailleurs, de quoi rappeler à leurs fans que non, il y aura plus de groupe dans pas si longtemps. Mais ce n'est pas totalement leur tour de moment.



Jack Johnson au chevet des tortues



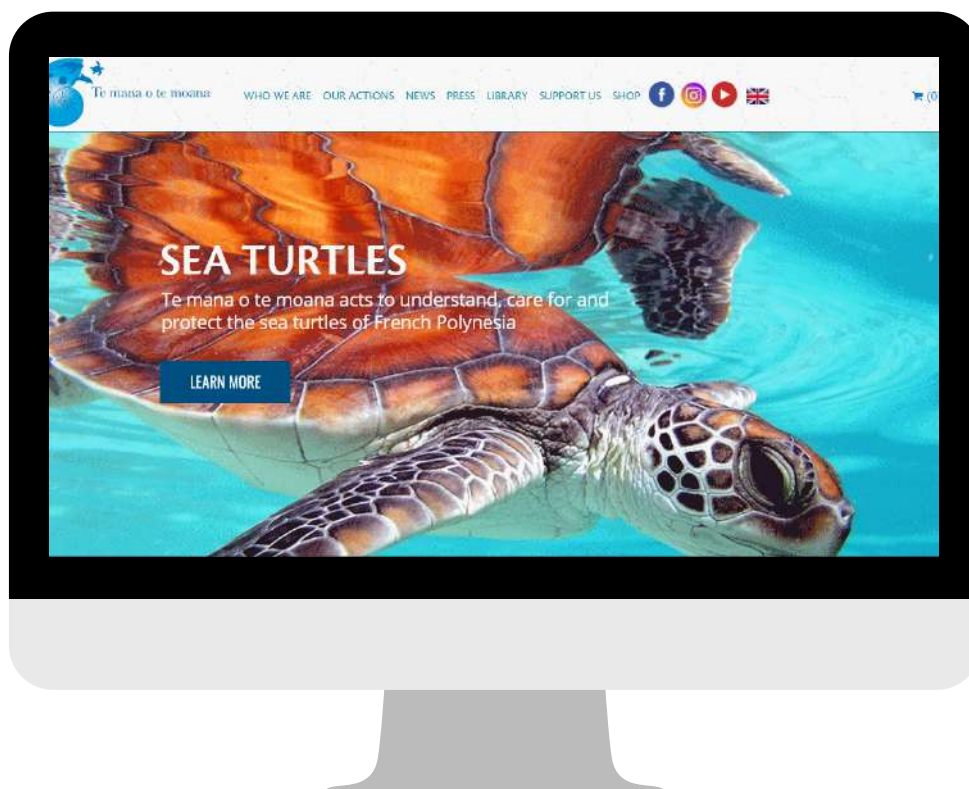
A MOOREA, « UNE VRAIE DYNAMIQUE » DANS LA LUTTE CONTRE LE PLASTIQUE



WEBSITE

To follow the association's latest news, Te mana o te moana developed a new website and is active on social media: Facebook, Instagram, YouTube, etc.

- IT IS POSSIBLE TO MAKE AN ONLINE DONATION, TO BUY ARTICLES IN OUR ONLINE SHOP AND TO SUBSCRIBE TO OUR NEWSLETTER.
- EDUCATIONAL RESSOURCES ARE DOWNLOADABLE.



www.temanaotemoana.org

SOCIAL NETWORKS



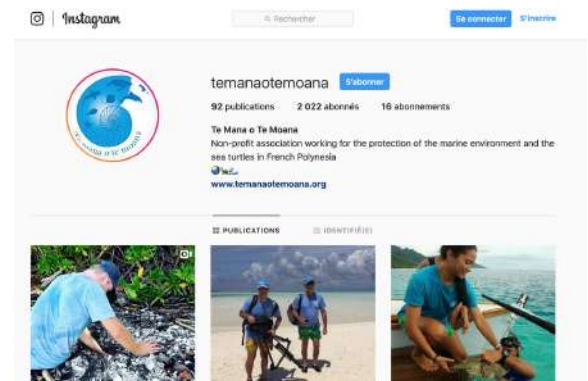
FACEBOOK

- Created in 2012
- Thousands of posts
- + 10 000 fans
- Updates, shared video reports, educational materials, monitoring of sea turtles from the Care center, conferences, sea turtle releases, call for volunteers, actions news, etc.



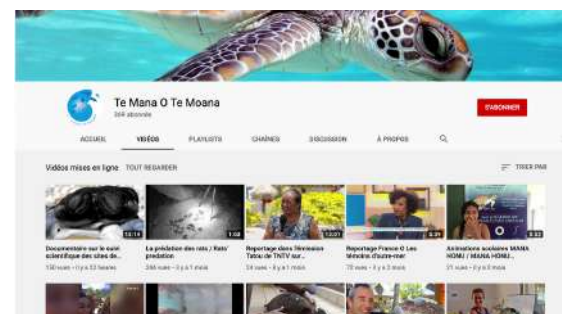
INSTAGRAM

- Created in 2018
- Nearly 100 posts
- + 2 000 followers
- Photos and updates, daily video reporting of the care center via instastories, etc.



YOUTUBE

- Videos of the TV reports, TV shows and documentaries on sea turtles, videos of the Care center and of Te mana o te moana's actions...





MĀURUURU

FOR YOUR SUPPORT

Thank you so much to all those who have been supporting us for years in our mission of research, education and conservation of the Polynesian marine environment. Maururu to our partners, volunteers, members, donors and all the people who have directly or indirectly contributed to making Te mana o te moana the association it is today.



Report written by Christelle FOUCHET and Hélène DURAN with the help of Vie STABILE and Cécile GASPARD, translated by Stéphanie WONG and Elodie SAUTOUR



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YOUTUBE: [TEMANAOTEMOANA](https://www.youtube.com/TEMANAOTEMOANA)

Photo credit: Alexis Rosenfeld