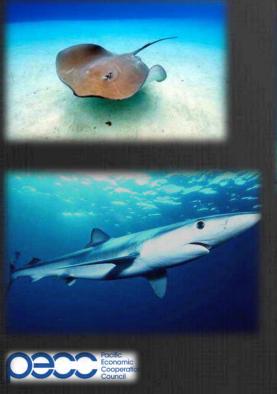
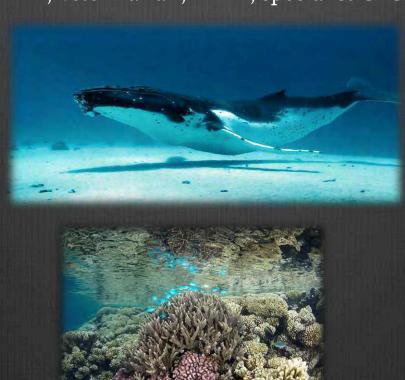
# Ocean education, research and conservation: defining a new eco-tourism concept the case study of te mana o te moana NGO in French Polynesia

Dr. Cecile Gaspar, co-founder and president te mana o te moana foundation PhD, veterinarian, MBA, specialist UICN









## Te mana o te moana

- Non profit foundation founded in 2004
- Member of IUCN as institution and specialists
- Founding member of the World Ocean Network
- Partner with Monaco Oceanographic Institute
- Member of Mission Blue (Sylvia Earle)
- Fouding member of World Ocean Network
- Founding member of FP Maritime Cluster

# Te mana o te moana Co-founders





#### Richard Bailey,

CEO Pacific Beachcomber SC
InterContinental resorts Tahiti and Moorea
InterContinental Moana Bora Bora
InterContinental Thalasso and spa Bora Bora
3 hôtels Maitai (Bora Bora, Rangiroa, Huahine)
The Brando Resort on Tetiaroa atoll
Président Paul Gauguin Cruises
Co-founder of Tetiaroa Society Foundation

Dr. Cécile Gaspar

Veterinary surgeon, PhD, MBA, specialist IUCN Co-founder of Tetiaroa Society Foundation

# A permanent team based in Moorea at the Moorea InterContinental resort and spa and 6 months/year at the Brando on Tetiaroa

Over 240 members

Over 140 volunteers and 30 with regular involvment







Over 30 master internships involved since 2004

Vie Stabile
Director and education
projets coordiantor

Alice Carpentier Marine biologist

Magali Soria Educator, care taker

A foundation board with 13 members



Vaiarii Mau



Laëtitia Bisarah

## Our foundation "godfathers"





Jean-Michel Cousteau, président of Ocean Futures Society



Jean-François Clervoy
French astronaut



Maud Fontenoy,

French navigator president of Fondation Maud Fontency

Mehiata Riria, Miss Tahiti 2013





## GOALS

## Education...

Creating awareness for environmental protection for up to 80.000 school children



### Research

Research programs on stingrays, coral reefs, sea turtles...



### Conservation...

More than 400 turtles received and taken care of in our dedicated clinic since 2004



### **Partners**



















Lante - Spatial - Francista RÉPUBLIQUE FRANÇAISE

ministère délégué

à la Racharcha









CRISP







OCAIR TAHITI



















FONDS PACIFIQUE















pacsafe











MOOREA RESORT & SPA



## Very special partners in tourism















UNIVOIMMENT Exiger plus que le voyage







## Some numbers

- Over 400 participations to local or international events in ocean awareness and protection
- 500 press articles
- 150 TV or radio coverages
- 50 présentations in international scientific conferences

The partnership with
Moorea Intercontinental resort:
Providing permanent quality office, classroom and
fare potee in addition
to a sea turtle clinic since 2004











The Sea Turtle Clinic: an example of a crucial action of marine conservation inside a resort property



- Authorized by Environment ministerial order
- Only turtles needed cares: sick, wounded or mutilated are received





- Appropriate treatments and diet, veterinary cares
- Turtles fully rehabilitated before release decision



















Free of charge education programs and interaction every day at 2 pm Awareness through direct observation of turtles and educational signs







⊕ Over 400 turtles received

Over 200 turtles have been tagged and then

released







The release of Tereori green sea turtle by our President Edouard Fritch and its satellite tracking



#### Carte du trajet de Tereori

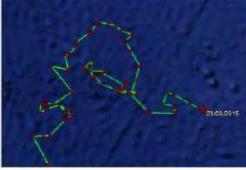
Update as of September 23, 2015

Movement of juvenile green turtle TEREORI

Released March 28, 2015 from Moorea island, French Polynesia

CCL: 59 cm Days transmitting : 179 Distance traveled; 2848 km Mean speed of travel: 15,9 km/day





Crucial partnership and support from the Direction of Environment if French Polynesia

Update as of 23 September 2014: Returned to the South Pacific 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: 487 days Distance traveled: 13,679 km 10°N Start Position

Current Position Islands 5°N 0° 0 200 Kiribati Solomon Islands: 5°S 10°S .-QUATOR French Polynesia 15°S Australia.

Vanuatu

-7500

170E

20°S

150E

GMT map by Danise Parker 09/23/14

160E

-10000







Ariti the loggerhead turtle nearly 14.000 km in Pacific Ocean crossing the equator

-5000

**ETOPO2 Bathymetry** 

180

-2500

170W

160W



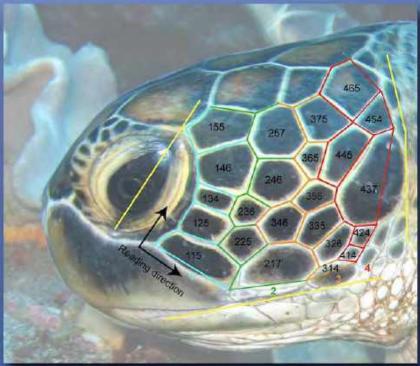


Photo identification for green turtles
Easy for scuba divers in some areas without any disturbance on the animal

Photo Identification



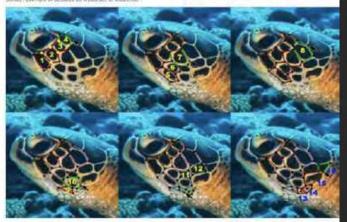






Aide à la photo identification

Demines les contours des écalles les unes après les autres à l'aide de votre soute en ciquant sur les servests de chaques d'elles Suite l'évergle distances et la départe le édante de



#### Qualques définitions

Exmourt des Sudition - Section du cétés que formant Placates.

Clint - percoinnentes 2 élection verbries, Oil entre 1 écolin et la passi du rous, Oil entre 1 écoline et la passi du rous, Oil entre 1 écoline et la passi du rous, Oil entre 1 écoline et la passi du rous, Oil entre 1 écoline autornais alles consider.

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première rangle (es mains un sind au un sermet en context). Et ame de sobs jumpi su co One rangle n'est pas forcèment drote, elle paus être amendie.

Contract State State State Co.

# Coral reef transplantation: another example of a crucial action of conservation in a resort









Research on a marine species: the green sea turtle and its nesting patterns on Tetiaroa atoll another example of a crucial support of a resort



arlon Brando turtle conservation on his atoll of Tetiaroa since 1974







Survey started in 2004 on an atoll with no permanent people

Partnership with a tourism volunteer organsation Planete Urgence for 3 years « Volunteer active tourism »

Nearly 100 females tagged and identified



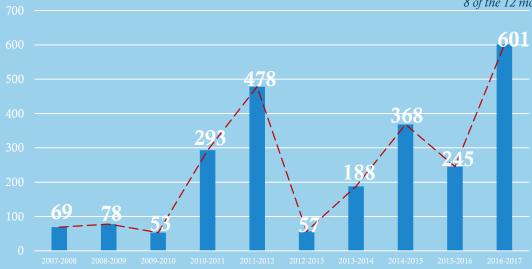


#### MI CIE CI GCR3

- ♦ More than 8000 kilometers of beach survey over 10 e years
- ♦ Tracks on ∆ of out 12 motu
- ♦ 3 main sites (motu) on Tiaraunu, Oroatera and Onetahi on 10 km of linear beaches
- ♦ More than 2500 tracks counted in 10 years and over 900 nests with
- ♦ over 70.000 eggs layed in 10 years



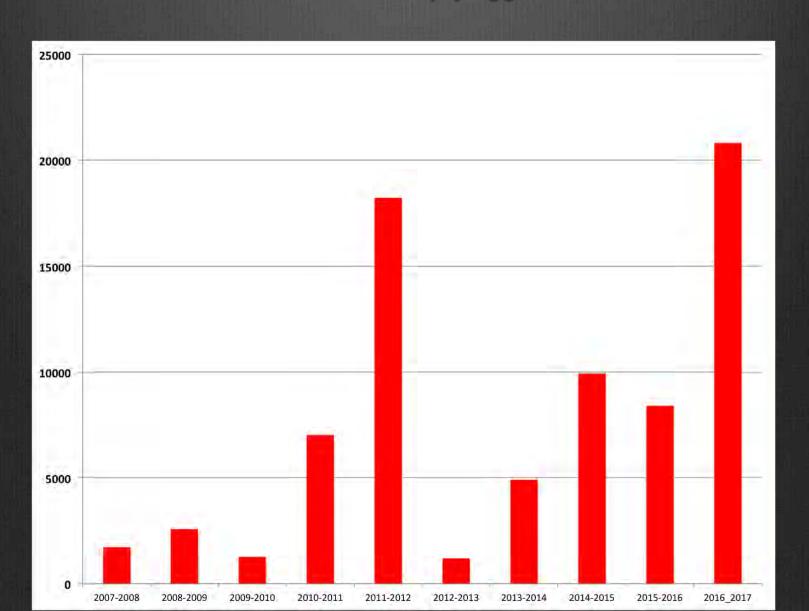
Repartition of turtle tracks on 8 of the 12 motu of Tetiaroa atoll -2016/2017





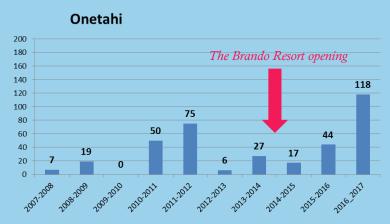
Yearly turtle events on Tetiaroa

# Minimal numbers of green sea turtle babies that have hatched on Tetiaroa beaches per year Observed live babies or empty eggs excavated



# The Brando Resort on motu Onetahi

- ♦ Uninhabited from 2004 to 2013
- ♦ Because of the turtle nesting, the villas have been specially pushed far back from the beaches
- ♦ In addition, the resort has set up particular light policies for turtle nesting season
- ♦ The number of tracks have been multiplied by since the hotel opened. Annual variability is taken into consideration also as well as poacher dissuasion
- ♦ Season 2016-2017: 111 tracks and 111 confirmed nests: over 5000 hatchling born on the resort motu







Since 2014, we have the support of the Brando Eco-resort, Tetiaroa Society and prestigious visitors like Barack Obama

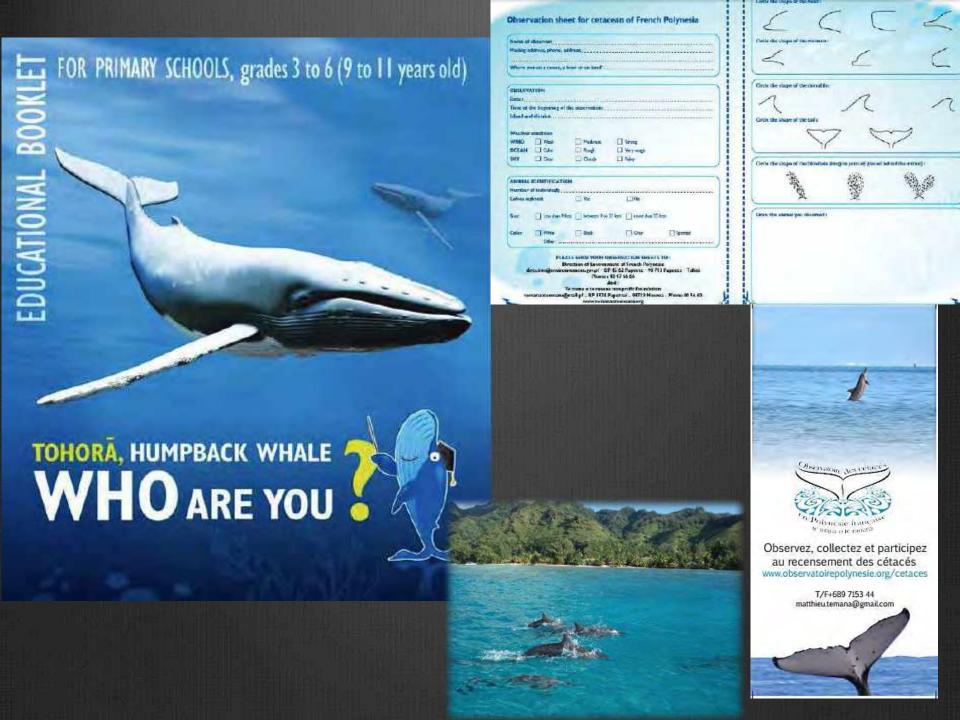


Education on marine life: available material for visitors in order to create new tourism behaviors or help them to make the good

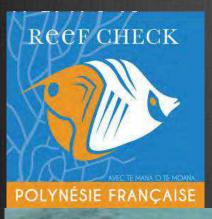
excursion decision example of dolphin and whale watching







Developping training and curriculum for naturalists guides and citizen science:example of Coral Reefs and Reef Check







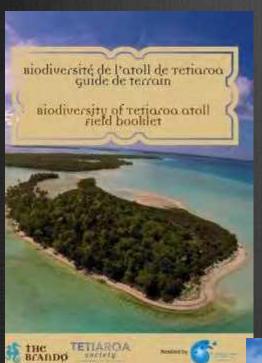








## Training naturalist guides on Tetiaroa for the Brando resort and developping daily naturalist tours on the resort 's request

















# Developping courses for official « Polynesian lagoon guides » or

« Polynesian scuba guides » on the request of Polynesian Ministery of Youth and Sport



Formation Guide de Plongée

Module 3

Les écosystèmes marins et les récifs coralliens











#### Les tortues marines Ambassadrices des océans

Formation de Guide des Activités Lagonaires







# Citizen science : « Hei moana » network with BEST European funding

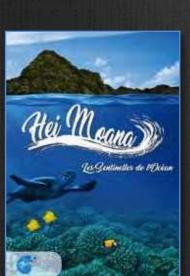




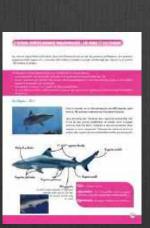


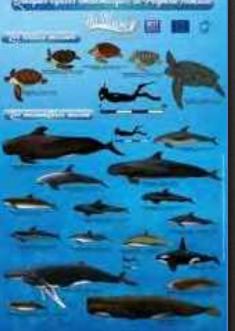














« Mata ora no Tetiaroa » for local school children: study of The Brando sea water air conditioning SWAC



# Conferences on ocean conservation for scientists, tourists or residents: French Polynesia 's image worldwide





