



**CORAL  
TRIANGLE  
CENTER**

Inspiring People Saving Oceans

# CORAL TRIANGLE CENTER

# 2021 ANNUAL REPORT



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# TABLE OF CONTENTS

Boards .....	02
About Us .....	03
Foreword .....	04
Marine Conservation on the Ground .....	14
Building Capacity for Effective Marine Conservation .....	19
Partnerships and Learning Networks .....	23
Outreach and Communication .....	26
Center for Marine Conservation .....	28
Institutional Development .....	33
Organizational Chart and Financial Summary .....	35

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# ABOUT US

## CORAL TRIANGLE CENTER

a center of excellence in tropical marine resource management:  
Building local leadership for long-term conservation in the Coral Triangle



Inspiring People Saving Oceans

## VISION

CTC envisions healthy seas that enrich people and nature.

## MISSION

CTC inspires and trains generations to care for coastal and marine ecosystems.

## VALUES

### Excellence

In the quality of our teaching. In the performance and integrity of our staff. In our commitment to being a world-class center of marine resource management.

### Collaboration

We build partnerships among leaders in government, communities, NGOs, education, and the private sector because only by engaging all constituencies can solutions be effective.

### Local Stewardship

Based in the heart of the Coral Triangle, we maintain strong roots in the field and close ties to stakeholders at all levels. We value traditional knowledge and practices and promote local ownership of our projects.

### Result

We provide trusted information, are transparent in our actions, and hold ourselves accountable for the quality of our programs, changing our strategies as necessary and measuring our impact over time.

## LETTER FROM THE EXECUTIVE DIRECTOR

As 2021 drew to a close, we look back on a year in which we could further consolidate and expand our online training, workshop and webinar services engaging more than 1,300 people. Via our social media we reached almost 200,000 individuals. Our coral and fish monitoring surveys, dive expedition, and community programs in the field could proceed under strict Covid-19 guidelines. Despite the continued global Covid-19 pandemic, we were able to strengthen our program and organization with six new sponsors, four new board members and seven new staff. Among the highlights was the launch of three MPA tools by the Ministry of Marine Affairs and Fisheries (MMAF) including the MPA Vision 2030 Roadmap, the MPA Capacity Building Roadmap, and the new EV KA MPA management effectiveness tool that CTC helped facilitate with partners. These tools will be instrumental to support the Government of Indonesia to help set aside 10% of its marine waters in effective MPAs, and contribute to the realization of the global post-2020 Convention on Biological Diversity (CBD) goal to protect 30% of land and oceans by 2030.

CTC is also supporting the CT6 countries through the Coral Triangle Initiative on Coral Reefs, Fisheries, and Food Security (CTI-CFFI) regional secretariat with a plan to scale up, accelerate and sustain capacity building in the Coral Triangle region with partners in this context. With the completion of CTC's expo facilities at our Center for Marine Conservation this year, we will be able to focus on the outreach and engagement of schools, students, dive operators, local communities, non-governmental organization colleagues, government officials, visitors and tourists in ocean conservation.

This is a defining decade in which principles of resilience, inclusiveness and sustainability should drive the Blue Recovery of our oceans in the face of climate change and the global pandemic. My heartfelt thanks to our sponsors, partners, board and staff for their unwavering support and commitment to our mission to inspire and train generations to care for coastal and marine ecosystems. Towards healthy seas that enrich people and nature.



  
Rili Djohani  
CTC Executive Director

## LETTER FROM THE CHAIRPERSON

In the fabric of environmental stewardship, stories emerge that capture the essence of transformational impact and reflect the fundamental reality that large movements may emerge from small beginnings. The Coral Triangle Center (CTC) narrative exemplifies this.

CTC was founded in 2010 to address the urgent challenges of coral reef degradation, overfishing, and pollution in our oceans. With an initial team of five people, these diverse yet united visionaries set forth on a mission to protect the oceans that surround us, recognizing the profound interconnectedness of our lives with the sea.


More than a decade later, the seeds sown by these pioneers have flourished into a thriving force for change. CTC has grown into an organization with 40 dedicated professionals. Working closely with stakeholders at the international, regional, national, and local levels, CTC has proven its mettle as a trusted leader in the conservation of marine environments in Indonesia and the Coral Triangle. CTC operates in seven marine protected areas, covering more than 387,000 hectares, exemplifying effective partnerships as well as transforming scientific knowledge into on-the-ground action.

CTC's impact extends beyond national borders, earning international recognition for its commitment to training and marine protected area management. Over the years, it has empowered 6000 individuals in marine conservation, fostering a global community dedicated to preserving our oceans. The Center for Marine Conservation, a hub for knowledge-sharing and collaborative learning, has spaces like a training hall, a dive training pool, an art installation facility, and even two engaging escape rooms designed to enhance public understanding of marine conservation.

As we emerge from the past two years of global pandemic and continue to embark on the pages of this narrative, I extend heartfelt thanks to CTC's founders, donors and supporters, and a fervent hope that the community rallying behind CTC's mission will persist in their unwavering support. Lastly, a resounding acknowledgment and gratitude to the CTC team, whose collective efforts have transformed the CTC into a beacon of hope and change in the realm of marine conservation.

May the journey ahead be as promising and impactful as the path traversed thus far.



  
Yuli Ismartono  
Co-founder and Chairman of the Board of Trustees

# THE CHALLENGE

Protecting the global epicenter of marine biodiversity

Against the threat of...



Houses  
**76%**  
of all coral species in the world

Home to  
**3,000**  
species of reef fish

Provides  
**130 million**  
people with food and income

Generates  
**\$1.6 billion**  
in revenue from fish catch and marine tourism

## TOP CORAL REEF THREATS

Unsustainable fishing



Coastal development



Irresponsible tourism



Pollution



Climate change



**70% of the Coral Triangle's reefs could be destroyed by 2050 if business as usual continues**

# WHAT WE DO



## WE LEARN

We implement, we test, we gather knowledge



## WE PARTNER

We work with government agencies, the academics and other NGOs

We use field experience, state of the art science and best practices:



## TO INSPIRE

Youth, students, tourists and concerned citizens



## TO TRAIN

Professionals and communities to take care of our oceans



## TO ENGAGE

private sector and work with them towards sustainable marine and coastal practices

And connect all groups to amplify:



## OUR ULTIMATE GOAL

To abate the threats of overfishing, pollution and climate change together and preserve the most diverse and resilient coastal marine ecosystems in the world and secure oxygen, food, jobs and protect the coast for millions of people.

## We Learn

from field sites where we implement theories and determine effective strategies to manage MPAs

## We Partner

with government agencies, academic institutions, the private sector, and other non-government organizations

## We Train, We Equip

people involved in the management of MPAs across the Coral Triangle region

## We Engage, We Inspire

with students, tourists, dive operators, fishing communities – everyone who has an interest in protecting the health of our reefs

## We Connect

various groups – MPA managers, local leaders, women – to promote collaboration and encourage knowledge sharing

## AMPLIFY MARINE CONSERVATION



- Center for Marine Conservation
- Training & Learning
- Field Learning Sites
- Learning Networks
- Public-Private Partnerships



## KEY CONSERVATION TOOL

## Marine Protected Areas (MPAs)

MPAs – areas where resource use is regulated and critical areas are protected – have been proven effective at maintaining or even improving the quality of reefs and rehabilitating fish populations.

With 197 MPAs throughout the archipelago covering some 23.38 million hectares, Indonesia is well on its way to achieve its goal of having 32 million hectares of MPAs by 2030. To make sure these MPAs are effectively managed, Indonesia needs trained and capable MPA managers and technical personnel to support its conservation targets.

However, Indonesia doesn't have enough trained people capable of managing all these protected areas.

Each MPA also has unique features and specific needs, and what works in one MPA might not work in another.

**This is where CTC comes in. We help establish MPAs. We test theories and determine the best strategies. And we train and equip all people to effectively manage MPA.**

“ Our whole approach is aimed to inform, engage and equip people with practical tools to better understand and manage the coastal and marine ecosystems.

Rili Djohani, CTC Executive Director

”

# IMPACT IN NUMBERS

Since its establishment in 2010 until 2021, CTC has turned knowledge into on-the-ground action to protect and sustainably manage marine resources in Indonesia and the Coral Triangle.

## THROUGH OUR TRAINING AND LEARNING ACTIVITIES, WE HAVE

Developed **30** training modules  
 Conducted **281** trainings  
 Trained **6,930** people



## THROUGH OUR CENTER FOR MARINE CONSERVATION, WE HAVE ENGAGED

**12,621** people in our fun learning activities, games for change, art and science programs, events, dive training pool.



## THROUGH OUR SOCIAL MEDIA AND OUTREACH ACTIVITIES, WE HAVE ENGAGED

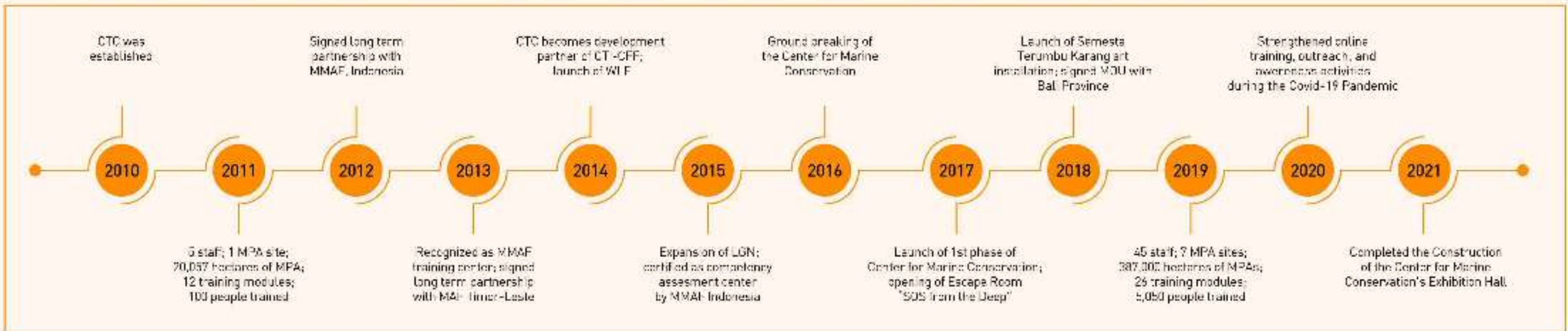
**420,000** people to learn about marine conservation

## THROUGH THE ESTABLISHMENT OF MPAS IN INDONESIA AND TIMOR-LESTE, WE HAVE PROTECTED

**387,000** hectares of critical marine habitats and helping restore fish stocks for the local community



- MPA : Marine Protected Area
- MMAF : Ministry of Marine Affairs and Fisheries
- MAF : Ministry of Agriculture and Fisheries
- LGN : Local Government Network
- CTI-CFF : Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security
- WLF : Women Leaders Forum



# CONSERVATION ON THE GROUND



## NUSA PENIDA MPA

Est : 2010  
Size : 20,057 ha  
Location : Bali

This MPA is one of the most advanced in Indonesia. Situated off the coast of Bali, it is a popular tourism destination, receiving more than 300,000 visitors annually. The highly diverse marine ecosystem is host to 298 species of coral and 676 species of fish (including 130 species previously unknown to science), and is a renowned site for spotting mola mola (leather sunfish) and manta rays. With a resident population of around 48,000 people, most of whom depend upon the marine environment for their livelihoods (from fishing, tourism and seaweed farming), there is a pressing need for sustainable management of the area. CTC has been actively supporting this site since 2009.

Through the establishment of new Marine Protected Areas in Maluku and North Maluku and Timor-Leste we have protected critical marine habitats and helping restore fish stocks for the local community.



## LEASE MPA

Est : 2021  
Size : 81,573.48 ha  
Location : Maluku

Includes 3 large islands and several small islets, home to over 60,000 people. This recently established MPA southwest of Seram Island is blessed with excellent coral reefs (over 90% coral cover in places), supporting both fisheries and tourism livelihoods. The fish commodities in Lease are big pelagics such as yellowfin and skipjack tuna, and small pelagics such as sailfin and mackerel.



## BUANO MPA

Est : 2021  
Size : 32,964 ha  
Location : Maluku

Host to important spawning sites, with ~60% of the resident population (2 villages) as well as outsider fishers relying on the fisheries resources for their livelihoods. MPA establishment here is being supported by the 'King of Buano' under traditional frameworks. The fisheries commodities in Buano Islands include big pelagics such as yellowfin tuna, small pelagics such as skip jack tuna and mackerel, reef fish such as grouper, and demersal fish such as snapper.



## AY-RHUN MPA

Est : 2021  
Size : 47,968.74 ha  
Location : Banda Islands, Maluku

The islands of Ay and Rhun are located in the Banda archipelago in Central Maluku. This remote region is famed for its stunning underwater environment. With a combined population of around 4,000 people, the communities here rely heavily on fisheries for daily subsistence and trade. The reef system boasts a shallow water average of 60 percent live coral cover, and supports an additional snapper and grouper fishery. MPA development in this region is building on traditional local systems, with design incorporating elements of 'sasi', and management based around community collaboration. CTC has been actively supporting this site since 2011. We also support 45,000 ha of Banda MPA Islands network.



## ATAURO MPA

Est : In progress  
Size : 13,251 ha  
Location : Dili

Located north of Dili, this island is home to ~9,300 people, reliant on fishing, farming and an emerging tourism industry, with important habitat for turtles and dugongs. Atauro is also known to have a high diversity of coral reef and reef fish as well as an important migration channel for octopods in the Savu Sea. MPA design is building on existing community-based reserves established by five traditional 'sucos' (villages).



## LIQUICA MPA

Est : In progress  
Size : 8,127 ha  
Location : Liquica

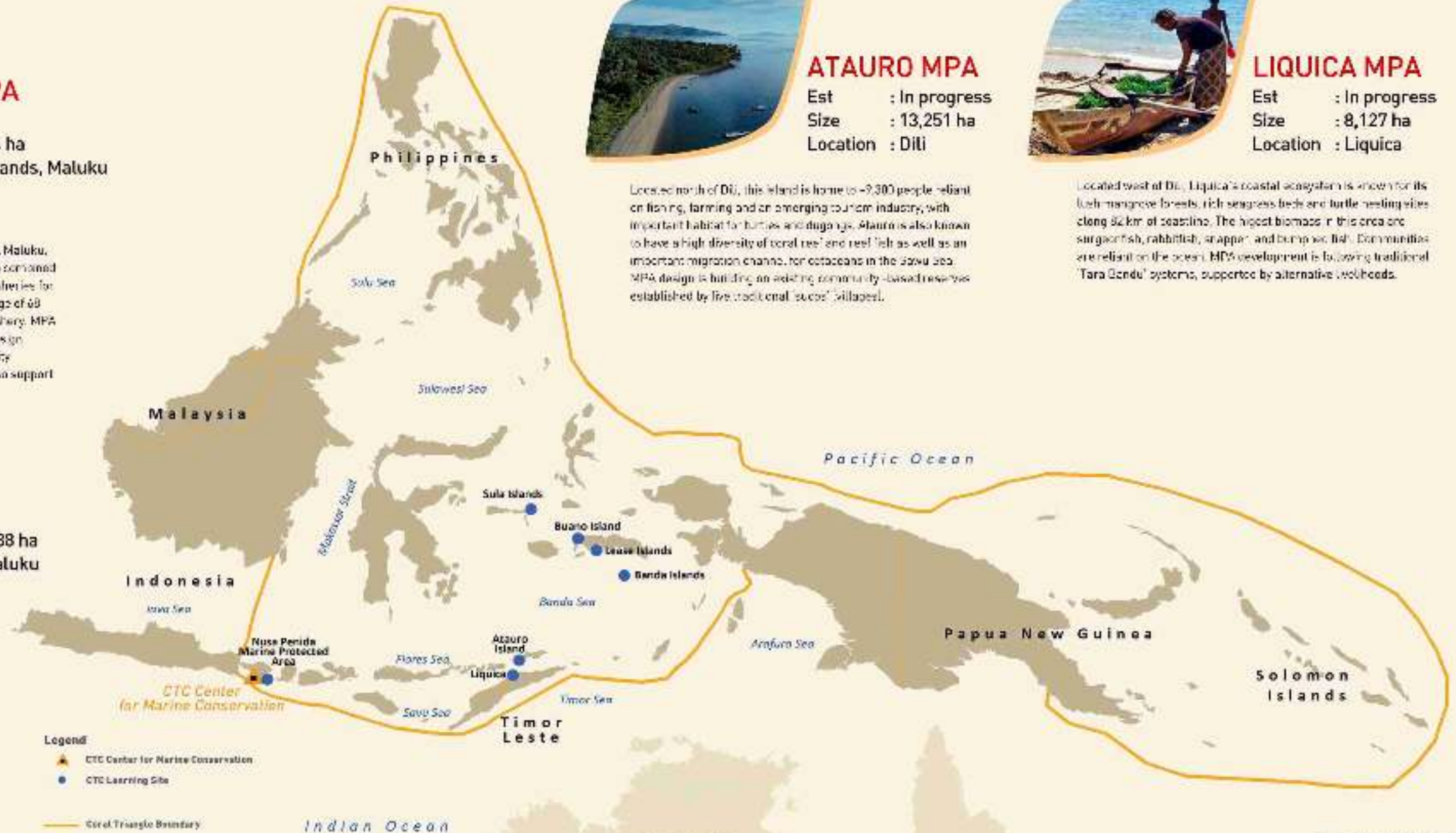
Located west of Dili, Liquica's coastal ecosystem is known for its lush mangrove forests, rich seagrass beds and turtle nesting sites along 82 km of coastline. The highest biomass in this area are surgeonfish, rabbitfish, snapper, and bumphead fish. Communities are reliant on the ocean. MPA development is following traditional 'Tara Gondu' systems, supported by alternative livelihoods.



## SULA MPA

Est : 2018  
Size : 117,959.88 ha  
Location : North Maluku

The surrounding waters of Sula Islands are recognized to be high value fishing grounds, where pelagic fish and demersal fish such as tuna, skipjack, small mackerel and fusiliers in all sizes can be found in large numbers. With exceptional coral cover and host to large populations of turtles and other megafauna, this new MPA wraps around 2 large islands and several islets. Located in a remote, poor region, the population living in the MPA (520,000 people) are heavily reliant on marine resources.



# MARINE CONSERVATION ON THE GROUND

## New Marine Protected Areas (MPAs) Declared in Maluku Province

The Indonesia Ministry of Maritime Affairs and Fisheries (MMAF) officially designated four new marine protected areas (MPAs) in Maluku Province this year. CTC is proud to significantly contribute in the establishment of three out of those four new MPAs. The Ministerial Decrees that covered declaration the new protected zones were signed on June 21, 2021 and included MPAs supported by CTC such as the Ay-Rhun Islands, Lease Islands, and Buana Islands.

Since 2012, CTC has assisted local communities in the Ay-Rhun Islands to establish the MPA. On the other hand, CTC supported the establishment of the Lease and Buana Islands MPA under the USAID Sustainable Ecosystems Advanced (SEA) Project from 2016-2023. Even though the project has ended, CTC is still committed to work together with the Provincial Government of Maluku and related stakeholders, to ensure that these newly declared MPAs will be managed effectively.

The Ay-Rhun Islands MPA covers an area of 61,178.53 hectares which is situated between two small islands. The MPA incorporates a zoning system to support sustainable fisheries and growth in marine tourism, while protecting endangered marine species, such as Napoleon Wrasse fish, and conserving precious marine and coastal ecosystems. The area is safeguarded and monitored by two community surveillance groups (Pokmaswas), namely Nailaka in Rhun Island and Lawera in Ay Island.



The Lease Islands MPA covers 67,684.19 hectares of three main islands, namely the Haruku, Separua and Nusa Laut. It has intact marine ecosystems including coral reefs, seagrass and mangroves, which support abundant marine life, even the endangered dugong. The MPA will be supported by new policies and programs that support marine conservation and supporting local communities to move away from destructive fishing practices and reduce pressure on marine ecosystems.

The Buana Islands MPA covers an area of 31,686.86 hectares and applies a zoning system to support sustainable fisheries, marine tourism and protection of endangered marine species. CTC has supported the development of the MPA through building up the MPA management plan and conducting training and environmental education sessions for locals, as well as increasing the capacity of local government officers to manage the area.

To ensure the implementation and effective management of the new MPAs, CTC together with the Maluku Provincial Government, conducted a series of socialization and public meeting regarding the declaration of these new MPAs at the provincial and village levels. CTC will also support the production of information and communication materials that can be used to raise local awareness of marine conservation.

## Developing Indonesia's New MPA Effectiveness Measurement Tool



In 2021, the Indonesian Ministry of Marine Affairs and Fisheries (MMAF) started using a new tool to evaluate marine protected areas (MPAs) in the country called "Management effectiveness of marine conservation area" or EVIKA. CTC has played an active role to ensure the EVIKA mechanism is implemented properly, as well as supporting the Indonesian Government to assess 60 MPAs nationwide using the new tool.

The Indonesian Government aims to declare 32.5 million hectares marine area as MPA by 2030 and ensure that these MPAs are managed effectively. To improve its evaluation system, the MMAF developed the EVIKA mechanism in 2020. Compared to the previous MPA evaluation tool, EVIKA measures conservation targets and the resources invested in the MPA, including inputs and processes. EVIKA also identifies areas that need to be improved by helping MPA managers develop an action plan. With the new EVIKA mechanism, the MMAF hopes to be able to measure management effectiveness performance for each MPA in Indonesia and provide a comprehensive report to provincial governments on the MPA progress and provide concrete recommendations for adaptive management.

In preparation for EVIKA's rollout, CTC supported the development of a competency-based module and curriculum that will train MPA managers to support the implementation of EVIKA as well as provide technical support to the MMAF in the implementation of EVIKA assessments in the country.

## Reef Health Monitoring Shows Coral Reefs in Banda Remain Resilient

Amidst climate change threats which have warmed and acidified our oceans globally, the results of this year's reef health monitoring (RHM) survey carried out by CTC's learning sites team around the Banda and Ay-Rhun Islands marine protected areas (MPAs) showed positive results. All corals observed at 14 sites were found to be in healthy condition with no indication of coral bleaching or being damaged by any destructive fishing practices.

CTC conducted the RHM survey from November 12 to 17, 2021 in collaboration with the staff from Maluku Province, Banda Marine Recreation Park, Marine and Fisheries Resources Surveillance of Banda Islands, and Blue Motion Dive Center. The team observed healthy coral reefs at the depth of 3 and 10 meters of the waters around Ay-Rhun, Hatta and Gunung Api Islands in Banda. The Point Intercept Transect (PIT) was used as the main methodology to assess the percentage of living corals. Healthy coral colonies in Banda, dominated by Staghorn (*Acropora carolinensis*) and Branching (*Acropora florida*) species. On the other hand, the CTC also found an abundant and healthy population of grouper, snapper and barracuda that were often seen swimming along with surgeon fish and bump-head parrot fish. Finally, the team also observed some spawning activities of Napoleon Wrasse (*Chelinus undulatus*) fish near the Nailaka and Tanjung Noret, Rhun Island, indicating the overall robust and dynamic ecosystems.

CTC has been supporting the government, local partners and communities in the Ay and Rhun Islands since 2012 to design and develop a resilient MPA. In 2016, the Maluku Province Government issued a decree for the establishment of the Ay-Rhun Islands MPA which was then followed by an official declaration by the Indonesian Ministry of Marine Affairs in June 2021.

Meanwhile, CTC also supported local community groups in the Banda Islands in managing their marine ecosystems. This year, CTC handed over a long boat called "Mameng" to the Nailaka community surveillance group (Pokmaswas) of Rhun Island. "Mameng," named after the Napoleon Wrasse, will be used to support surveillance, marine resource monitoring and plastic waste clean-up activities in Rhun Island, as well as community events and/or emergencies.



## Addressing Plastic Pollution in the Banda Islands



Plastic pollution has become one of the most pressing environmental issues affecting marine biodiversity and ecosystems in Banda Islands, Maluku. To increase public awareness about the dangers of plastic waste and to support the local communities in managing it, CTC and other related key stakeholders in the Banda Islands held a waste management workshop in the Ay-Rhun Island MPA. Following that, CTC provided a plastic waste shredding machine to the community of Ay Island to help the local communities in Ay and Rhun Islands manage plastic waste independently.

During the waste management workshop, several challenges in managing waste in the Ay-Rhun Islands were identified, including low level of public awareness about the harmful impact of disposing garbage in the ocean, lack of knowledge regarding waste processing, absence of waste processing facilities in the islands, and the lack of allocated budget to support the work of waste management officers.

To support the development a comprehensive plastic waste management plan, CTC will also hold a series of trainings on plastic waste management for local community groups and support the establishment of a small processing center and take charge of managing the plastic waste. The facility will help the community sort and shred collected plastic waste making it easier to send to Ambon to be processed by waste processing organizations. Income from the sale of shredded plastic waste is expected to increase village income and contribute to financing marine conservation activities.



## Pandemic Conditions Contribute to Improved Coral Reef Health in the Nusa Penida MPA

The CTC team was back in Nusa Penida MPA's pristine waters in August 2021 to lead the annual multi-stakeholder reef health monitoring survey. This time, the team did not encounter many people underwater. Instead, they found themselves face to face with many of the islands' charismatic marine animals and healthy coral reefs. Apart from looking at the status of the coral reefs and fish populations in the Nusa Penida MPA, this year's survey and monitoring activities also aimed to assess the impact of the pandemic to the MPA's marine ecosystem.

The reef health monitoring survey covered 14 spots at the depth of 3 and 10 meters. Some of the team's key observations include an overall increase in live coral coverage by 9% compared to the previous year. The team also observed new coral growth in sites that were previously damaged by marine tourism activities, as well as an increased number of manta rays in popular dive sites such as Manta Point and Manta Bay. However, the team found that there was a decline in the number of key fish populations in the MPA.

These observations can be attributed to the sharp decline in the number of tourists and visitors to the Nusa Penida MPA from 2020-2021 as a result of the Covid-19 pandemic, which impacted the tourism industry and prompted tourism workers to shift to other livelihood sources such as seaweed farming and fishing. The shift in economic activity resulted in an increased number of fishermen fishing in the Nusa Penida MPA, and led to a corresponding increase in fishing pressure in the MPA's fisheries zones.



## New Project Aims to Strengthen Protection of Nusa Penida MPA's Marine Biodiversity and Boost Local Livelihoods

This year, CTC embarked on a new collaborative project in the Nusa Penida MPA called the "Coral Reef Rehabilitation and Management Program - Coral Triangle Initiative (COREMAP-CTI)". The project is funded by the Asian Development Bank (ADB), Indonesia Climate Change Trust Fund (ICCTF), Ministry of National Development Planning/National Development Planning Agency (Kementerian PPN/Bagian Peta) and will be implemented in partnership with the Bali Province Government and the Klungkung District Government. The project will run from April 2021 until September 2022.

The overarching goal of the project is to assist the Nusa Penida MPA Management Unit to increase the management effectiveness of the MPA. Improvement of the management effectiveness status will be pursued through the development of ecosystem-based resources management and the promotion of sustainable marine livelihoods. There will be three main activities covered by the project. First is coral reef and mangrove rehabilitation which is intended to restore and rehabilitate at least 20% of the degraded mangrove areas and 5% of degraded coral reef areas through appropriate reef restoration and rehabilitation methods.

Second, the project will provide essential capacity-building and support to local community groups such as the surveillance group to improve compliance with the MPA zoning regulations and the local seaweed farmers group to improve cultivation and marketing of small-scale seaweed production to support local livelihoods. Lastly, the project will implement an eco-tourism scheme and establish related infrastructure to further boost community-based mangrove tourism activities. The project also aims to raise community awareness through various public campaigns on MPA law enforcement, marine conservation areas, and endangered, threatened and protected species in the Nusa Penida MPA.

As part of the project, CTC conducted baseline surveys across the Nusa Penida MPA to assess possible sites for mangrove and coral rehabilitation, as well as to identify community groups who will collaborate in its implementation. Following the assessment, CTC also led a public consultation to share the project activities to the local government and community leaders and gather their input and feedback on the project implementation going forward. The project will also implement an ecotourism scheme and build supporting facilities for mangroves tourism.

CTC also organized a training program for local community leaders and staff of the Bali MPA Management Unit to learn about marine and coastal ecosystems, principles of MPA, marine surveillance, and methodologies on data collection and resource use monitoring.

CTC hopes that that the knowledge transfer happened accordingly so that the Buana Jaya Pokmaswas will be able to conduct their own resource use monitoring activity in the future.



### I Ketut Mudra Asmara

Buana Jaya Pokmaswas, Suana Village, Nusa Penida

I really enjoy the training and appreciated the way CTC delivered it. We have received basic skills about monitoring activities from local governments in the past, but this training is giving more information and skills to us. For example, I now know how to speak to fishers about the MPA zoning system while doing the area monitoring.

## CTC's Adopt-a-Coral Site in Nusa Penida: Restoration Site Show High Survival Rate and Healthy Growth

We are happy to share that baby corals in our Adopt-a-Coral site in Ped Village, Nusa Penida have exhibited healthy growth rates. In the first year since we started the program in December 2020, we've seen rapid growth of the baby corals and 99% survival rate. The growth can be attributed to good water quality in our nursery and the absence of sediments and nutrient deposits that cause algae to grow. Our community partners - the Nuansa Pulau Community Group are also taking good care of them by conducting weekly cleaning and monitoring on the site.

CTC has been working with the Bali MPA Management Unit and the Nuansa Pulau Community Group to set up the coral rehabilitation site near Ped Village, with the aim to help rehabilitate damaged reefs in the Nusa Penida MPA. This site is also where baby corals in our Adopt-a-Coral Program are transplanted. To ensure that this new site is efficient and sustainable, CTC is following coral transplantation best-practice guidelines and methods under the Mars Assisted Reef Restoration System (MARRS). This method uses a star or spider web-like structure as an artificial substrate which makes the coral stable and well connected. It has been effective in increasing the number of natural coral recruits in Bali and Indonesia, enabling corals to grow faster and allowing reef-building species to live and form new habitats for other marine animals.

Through the Adopt-a-Coral program, anyone can adopt their own coral, and we will help take care of it on people's behalf to make sure they grow healthy. Coral adopters can also write their name or message on a special tag made of lontar leaves that are then attached to the baby corals or coral fragments.



December 2020



December 2021

## Stronger Reef Health Monitoring Protocol for an Integrated Atauro Island Marine Protected Area



Coral Reef Monitoring Protocol for Atauro Island MPA – Timor Leste

To support the effective management of the proposed integrated Atauro island MPA in Timor-Leste, CTC is helping establish a comprehensive Reef Health Monitoring (RHM) protocol that will provide guidelines for the monitoring team, as well as government partners and other working partners who are examining the health of coral reefs and fish population.

The proposed protocols were presented to representatives of local and national authorities, as well as key stakeholders during a recent hybrid workshop held on September 2021, hosted by CTC in collaboration with the Ministry of Agriculture and Fisheries of Timor-Leste and the Fisheries Department of Dili Municipality.

A thorough RHM protocol is also crucial to ensure that monitoring processes are consistent in their methodologies. Effective methodologies include Line Intercept Transect (LIT), Point Intercept Transect (PIT), Quadrant Transect (QT) and Underwater Photo Transect (UPT).

Mr. Acácio Guterres, the Directorate General of Fisheries, Aquaculture and Marine Resources of the Ministry of Agriculture and Fisheries of Timor-Leste, in his opening remarks, expressed his appreciation for the cooperation between all governmental institutions and non-government organizations, including CTC, involved in ensuring the integrated Atauro Island MPA network can be managed effectively. He also expressed that he expects that the RHM protocol and results from the monitoring surveys will be effective and well-disseminated amongst stakeholders.



# BUILDING CAPACITY FOR EFFECTIVE MARINE CONSERVATION

## CTC Launches New Online Training Courses and Modules

CTC, in collaboration with the Australian Government's Department of Industry, Science Energy and Resources (DISER), launched its new online training module on blue carbon for policymakers was launched at the 2021 United Nations Climate Change Conference (COP26), on November 6, 2021 in Glasgow.

Blue carbon ecosystems, such as mangroves, seagrasses, and tidal marshes found in coastal areas, have been scientifically recognized as critically important to mitigating the negative consequences of global climate change for their ability to sequester and store significant amounts of carbon dioxide. However, there are numerous threats to their survival.

The online blue carbon policy training course seeks to enhance understanding and management of coastal blue carbon ecosystems and is aimed at junior to mid-level policymakers in Indonesia and the Pacific region. As part of the training course, there are several short 'snap-shot' recordings from blue carbon experts all over the world to further explain the concept of blue carbon, identify nature-based solutions, and illustrate how the preservation of blue carbon ecosystems can contribute to each country's Nationally Determined Contributions (NDCs) under the Paris Climate Agreement. NDCs embody efforts by each country to reduce national emissions and adapt to the impacts of climate change. Apart from the expert interviews, interactive games are also included in the training to familiarize each participant with the international treaties and agreements that govern blue carbon systems and aim to curb greenhouse gas emissions.

Meanwhile, on this year's World Fisheries Day, November 26, CTC launched a new integrated online training course that will equip fisheries managers with both knowledge and skills in relation to rights-based fisheries management. The course is the latest self-paced training module available on the CTC Academy, CTC's e-learning portal which can be accessed via CTC's website.

The integrated Fisheries Management (IFM) training module was adapted from a similar one developed earlier by the Environmental Defense Fund (EDF) and translated to Bahasa Indonesia. The training module has three main objectives that will enable participants to recognize and examine basic challenges in fisheries, differentiate between conventional and rights-based fisheries management, and grasp examples of the application of rights-based management from various places in the world. Moreover, the module consists of five units where each has a storyline explaining a hypothetical fisheries case example to provide opportunities for participants to jointly examine challenges in fisheries, as well as identify effective alternative solutions to overcome these challenges.

The IFM online training is a basic-level that focuses on the sustainable management of fisheries. As a self-paced training, all participants can freely start the course according to their respective time availability. The maximum duration of time given by the system for participants to complete this training however is limited to 90 days only. Upon completion of the training and passing the exam, participants will receive their certificates can take the advanced level where participants will learn on how to facilitate and design rights-based fisheries management.

CTC also released four downloadable learning modules to enhance knowledge about the many facets of MPA development, including resource use monitoring, development of sustainable marine tourism in MPAs, biophysical monitoring, and perception monitoring in MPAs. These four modules were developed by CTC in collaboration with the Indonesian MMAF and are available in Bahasa Indonesia. Each module spotlights the knowledge, management, skills and work ethic on several aspects of Marine Protected Area development. Everyone can access and download the modules for free in the CTC Academy E-Learning platform via the CTC website.



## Online Training Workshop for Environmental Educators and Facilitators

Creative teaching methods are an important aspect of learning. CTC, in collaboration with partners, developed an online training program to train teachers and environmental educators on how to deliver marine conservation education topics to their students.

In the first quarter, CTC collaborated with Ludena Nusantara (Ludenara) to deliver a series of online workshops focusing on helping Indonesian teachers teach marine conservation knowledge in a fun and innovative way. Both CTC and Ludenara shared innovative approaches that teachers and trainers can use to spread marine conservation messages during class such as the implementation of game-based learning. The sessions also tackled the challenges that teachers face in engaging children to learn things outside formal curriculum as well as solutions on how to address those.

In the third quarter, CTC collaborated with Murdoch University, to deliver an online training aimed to support Indonesian and Australian students and environmental educators in implementing environmental education programs for coastal community schools. The training focused on producing engaging and interactive learning activities on the importance of the marine ecosystem, the threats to the health of these ecosystems, and potential solutions to environmental problems. These topics were translated into learning programs relevant to a range of grade levels. The training also emphasized some practical tips to deliver knowledge to early learners. These included creating interactive learning experiences, engaging students in problem-solving activities, and providing learning sessions with simple, fun, and engaging games. At CTC, we believe in the power of merging art, games, and science as an impactful tool for learning. Through interactive learning, we will be able to inspire others to care for our reefs and oceans.



### Lingga Danu Febrinilla

*Papua Explorers, Raja Ampat*

I had been looking for this kind of workshop and mentoring. I am not from an education background so I really needed it. Conservationists in Indonesia have to take part in this training. Really great work for CTC and Ludenara teams. It was very helpful and I hope this event can expand widely.

## Media Training to Support Sustainable Blue Swimming Crab Fisheries

CTC in collaboration with the KPPRB in Lampung Province and other partners, conducted a hybrid short course for local journalists in Lampung titled "Media Contribution in Sustaining BSC Fisheries in Indonesia." This activity is part of the *Rajungan untuk Masyarakat Sejahtera (JUARA)* media campaign, which aims to spread awareness of and appreciation for the sustainable BSC capture fishery and other general capture fishery issues within the media at local and national levels.

The activity took place on September 18, 2021, in Lampung City and gathered 14 local print and media journalists attended this half-day event, from publications including *News Lampung Terkini*, *Radar Lampung*, *Media Lampung*, *MNC Group/Sindonews*, *Tribun Lampung*, *LKEN Antara*, *Kupas Tuntas*, *Fajar Sumatera*, *Lampung Post*, *Warta Lampung*, *Teras Lampung*, *Sabumi*, *Suara Lampung* and *Lingkar Utama*.

The event brought sustainability experts before the media, including the Directorate General of Capture Fisheries and the Ministry of Marine Affairs, as well as experts from the Fisheries of the Republic of Indonesia, the Marine Affairs and Fisheries Agency of Lampung Province, NGOs, the Indonesian BSC Association (APRI) and the BSC Fishers Communication Forum of Lampung Province. Through each presentation, participants were exposed to the importance of communicating the BSC fishery narratives and key messages to the public. Participants then drafted a comprehensive media coverage proposal by incorporating narratives and key messages that came up throughout the day. These proposals included a theme, title, background, type of news, and news angle, as well as resource persons, questions, and a timeline. The top 5 proposals were then given a small stipend to further pursue in-depth stories and visit stakeholders in the field if needed.



The second training under the JUARA media campaign, was an online short course for national media held on November 13, 2021. Several national media organizations, such as KOMPAS, Investor Daily Indonesia and Mongabay, enthusiastically attended the JUARA Media Short Course. CTC and Terra Komunka co-facilitated, in collaboration with resource persons from the Directorate General of Capture Fisheries of the Ministry of Marine Affairs and Fisheries Indonesia, the Department of Marine Affairs and Fisheries (DKPI) Lampung Province, the Head of Communication Forum of BSC Fishermen in Lampung, the Indonesian Crab Management Association (APRI) and the Environmental Defense Fund.



Through presentations and engagement in interactive discussions with all speakers, participants said that they had received sufficient information about the current state of BSC fisheries in Indonesia, as well as some key messages on collaborative efforts made by multiple stakeholders to promote and protect this invaluable species. By having great media exposure, it is hoped that the harmonization of BSC-related policies and regulations between central and regional governments, as well as good compliance among small-scale fishers and private sectors, can be well-maintained.

## Supporting Women in Coastal Communities in Blue Economy and Post-pandemic Recovery

In many capture fisheries businesses in Indonesia, women appear at the forefront. Their roles are diverse, starting from collecting the day's catch from landing sites, to processing valuable bycatch into saleable products. Everything is done to increase fishers, who are mainly men, tend to be the focus of programs meant to increase fishing families' household incomes, which are mostly still below the poverty line.<sup>7</sup>

In April 2021, CTC and partners conducted a collaborative survey to assess the need for capacity-building activities for women groups who manage blue swimming crab (BSC) fisheries in Lampung. The field survey took place from April 22-30, 2021, covering two coastal villages, namely Kuala Teladas and Sungai Burung, in Tulang Bawang District. Although most of these respondents were women who work as local BSC fishers and pickers, some men fishers, traders and community leaders were interviewed, as well.

Highlighted findings from the survey include supporting fish-based products made by local women groups, such as crackers, pletik, meatballs and paste. These delicacies, however, are typically made occasionally, just to provide additional income when the BSC catch is low. Most respondents claimed that their products have never been sold outside the village due to the lack of confidence in the packaging quality, branding and food-labelling from local authorities. From the survey result, it is clear that most women representatives in Lampung hope to gain more capacity-building training on product quality control, bookkeeping, marketing, and legal procedures. Hence, the products can be more consistent in term of quality, stable in price, and marketable in other areas. Eventually, it will lead to an increase in livelihood income and prosperity.

As a follow-up to this survey, CTC designed a specific training topic on the business model canvas, which covers business planning, production aspects and post-production activities of a business to further support the women BSC fishers in Lampung.

Meanwhile, as the global pandemic encouraged local communities in Nusa Penida MPA to rediscover an old way of living through seaweed farming, in Suana Village, local women entrepreneurs work collectively in the Sari Segara group to jointly run a small venture engaged in transforming seaweed into marketable tasty crackers. Established in 2012, Sari Segara used to be an all-male seaweed farmers' group. However, with more members beginning to turn to the tourism sector for employment, their wives slowly took over operations. In 2018, the group was collaboratively run by 32 women for extra income to support their family. They also started expanding the group's focus from only selling dried seaweed to processing it as delicacies.



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Through experiments, these women finally came up with a flagship seaweed cracker product. The current head of Sari Segara, Ni Wayan Sri Wariningsih, explained the process of making crackers is less time-consuming yet still profitable. Therefore, members can still work on domestic tasks while taking care of their seaweed farms and producing crackers part-time.

To support Wayan and her group, CTC assisted Sari Segara in obtaining a Halal label and certification from the Indonesian Ulama Council and the National Agency for Drug and Food Control (BPOM). CTC also provided training on developing business plans, packaging and marketing, which can improve the group's management and product development in the future.

With this training, CTC was able to provide essential capacity-building and support to local community groups to support local livelihoods and aid in post-pandemic recovery efforts within the Nusa Penida MPA. Apart from Sari Segara, CTC is also supporting other women groups use seaweed to make soap products and developing seaweed as an alternative for plastic packaging.



### Ni Wayan Sri Wariningsih

Sari Segara Group, Nusa Penida

We never sold the crackers outside Nusa Penida because we want it to be our local signature product. However, with the slow economy nowadays, we are considering expanding the product distribution to Bali mainland. With the support from CTC, Sari Segara group could sell up to 100 kilograms of dried crackers for IDR 50,000 per kilogram. We hope we can sell more of our products to more people.

## PARTNERSHIPS AND LEARNING NETWORKS

### CTC Appointed as Co-Chair of CTI-CFF Women Leaders Forum

Timor-Leste and CTC were appointed as chair and co-chair, respectively, of the Coral Triangle Initiative on Coral Reefs, Fisheries, and Food Security (CTI-CFF) Women Leaders' Forum (WLF), during the 16th CTI-CFF Senior Officials Meeting held virtually on December 2021.

The CTI-CFF Women Leaders Forum was established at the 10th CTI-CFF Senior Officials Meeting and 5th Ministerial Meeting in Manado, Indonesia in May 2014, where the CTI-CFF called upon Coral Triangle countries to actively engage and incorporate gender equality perspectives to achieve its goals and targets. It encouraged all its bodies and its six member countries to integrate women as major stakeholders in its activities, and to document these actions to provide testament to, and serve as a model for, gender integration in marine resource management.

Through the activities of the CTI-CFF Women Leaders Forum, it is envisioned that coastal and marine resources have seen and will continue to be more effectively managed due to increased engagement and empowerment of women in decision-making processes at all levels in the Coral Triangle region and in the various CTI-CFF bodies.

As the co-chair of the CTI-CFF Women Leaders' Forum, CTC will serve for two years and will assist the chair to demonstrate active commitment to promote the rights of women and girls, build their networks and capacity, and ensure recognition of their integral value within CTI's conservation and sustainability goals and activities. Some of the activities of the CTI-CFF Women Leaders' Forum in the coming year include the implementation of the CTI-CFF Gender Policy, and forging partnerships and collaborations to build capacity of women leaders in marine resource management, amongst others.



### CTC Renews MOU with Indonesia's Ministry of Marine Affairs and Fisheries



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CTC strengthened its strategic partnership agreement with Indonesian Government by successfully signing three agreements with the Ministry of Marine Affairs and Fisheries (MMAF) in 2021 to deliver forthcoming collaborations that will ensure effective and sustainable marine resource management and conservation in Indonesia. CTC signed agreements with the Directorate General of Marine Spatial Planning (Ditjen PRL), Directorate General of Capture Fisheries (Ditjen PI) and the Bureau of Research and Human Resources (BRSDH).

Under these agreements, CTC continues support the Government of Indonesia in implementing mid-term national plan focusing on capacity building for marine protected area personnel, key stakeholders, fisheries practitioners, fisheries management council, youth and women group in priority areas; managing current established marine protected area to achieve management effectiveness gold status and supporting establishment of new marine protected area; strengthen marine protected area network at provincial, ecoregion, and connect to Coral Triangle MPA System. CTC also renewed our status as MMAF Independent Training Center and Center for Competency Qualification Assessment. With the status CTC has rights and responsibilities to conduct training, conduct competency assessment, and to work with national marine and fisheries accreditation institute to design competency assessment material for each level. Priority training topics, priority areas, and priority off-the-shelf curriculum to develop will be assigned this year.

CTC's agreement with MMAF reflects a reciprocal endeavor, where CTC will be proactive in its annual contribution to provide data and scientific information, recommendations, technical guidance and other supports needed for an effective and sustainable management of marine resources in Indonesia. On the other hand, MMAF will facilitate any high-level coordination needed by its organizational partners and provide qualified personnel to participate in human resource development and capacity-building activities held by CTC. The cooperation between CTC and the MMAF itself has been ongoing for more than a decade as CTC has consistently contributed to the marine conservation programs run by the MMAF Indonesia.

## CTC Leads Regional and National Consultations for the Proposed Arafura and Timor Seas (ATS) MPA Network and Sea Turtle Action Plan

The ecosystems of the Arafura and Timor Seas (ATS) play an important ecological and economic role for the countries bordering its waters, which include Indonesia, Timor-Leste, Papua New Guinea and Australia. Thus, collaboration is urgently needed to ensure their protection. In March 2021, CTC, in partnership with the AISEA-2 Regional Project Management Unit and Yayasan Konservasi Alam Indonesia (YKAN), led a series of national and regional consultations for a proposed a new road map for a marine protected area (MPA) network and an action plan for sea turtle protection, which are envisioned to facilitate regional collaboration in managing coastal and marine resources in the ATS.

Since 2020, CTC has been working with YKAN on the development of a MPA network design for the ATS by conducting a gap analysis and using the best available science, data and MPA design practices to identify potential gaps in the MPA network in the region. To do this, the team sought advice from the four national governments to help guide the process by providing advice on their priorities and interests, and providing relevant spatial data. The resulting MPA network design includes existing and proposed MPAs and identifies areas of interest for establishing new or expanded MPAs to fill gaps in the existing regional MPA network, for consideration by the relevant countries, species, incorporating connectivity and adapting to climate change.

CTC has also been working with sea turtle expert Dr. Nicholas Pilcher to develop a regional sea turtle action plan to protect priority coastal and marine habitats and conserve protected species in the ATS. For the sea turtle action plan, data analysis and consultations with scientists from each country was undertaken. Following this, an eight-point action plan was developed that can be implemented in a five-year period. The action plan proposes key actions such as strengthening indigenous community management, assessing and mitigating bycatch, preventing discarded fishing gear, conducting baseline assessments of nesting sites, take and key locations, and the development of a funding strategy.

In developing these important documents, we also involved country representatives by taking their inputs and comments to ensure that each country's interests, plans and targets in their coastal and marine area are well addressed and represented.

In the collaborative effort to protect marine ecosystems in the Arafura and Timor Seas, CTC organized a database and information management system training for 24 participants from four ATS countries, giving an introduction to a data and information management system for coastal and marine resources in ATS countries, how to operate the system, and how to maintain the system, in the process building capacity of government technical officers and other national stakeholders.

The training exposed participants to tools on data collection, database development and data mapping, amongst others. There were also exercise sessions during the two days' workshop where participants were given time to put into practice the knowledge they acquired during the training. By conducting the database and information management system training, we hope it will further support all conservation stakeholders of the Arafura and Timor Seas region to create good data-driven policies that will help protection and conservation effort of the ATS.



**Khazar Yakin Vamara**  
BPSPL Denpasar

I was very satisfied with the training as it had a complete package, not only focusing on the technical use of GIS but also going to the survey level with Kobo Toolbox.

## Reef Restoration Task Force Assists Practitioners in Resilience-Based Management in Indonesia

CTC and Mars Sustainable Solutions (MSS) have established a Coral Reef Restoration Task Force, which consists of committed individuals from CTC, MSS and the Nusa Dua Reef Foundation (NDRF). The Task Force will receive training from MSS in the Mars Assisted Reef Restoration System, which has been successfully applied in Indonesia and elsewhere. The system uses 'reef stars'-metal frames coated with sand-to provide a solid foundation on which carefully attached coral fragments can grow. The team will then support restoration projects throughout Indonesia, building a network of competent reef restoration practitioners, as well as giving assistance, troubleshooting and follow-up support for reef managers and communities in their projects.

This multi-year initiative will provide momentum to build capacity and enthusiasm for resilience-based management in Indonesia, with a note in mind that it has the potential to be expanded to other Coral Triangle nations. In addition, an online training module and general course on resilience-based reef restoration practices will be developed under the same initiative.

The Task Force then joined an in-depth training session with Mars, held from May 21st to 28th 2021 at their base in Makassar. Aside from accomplishing theory and assessment sessions, the Task Force team also went through a detailed process, starting from Reef Star production as well as experiencing the implementation process first hand. During the training, the Task Force members managed to install 300 Reef Stars in Bontosus Island. The team also got the chance to visit the HQPE Reef and see the significantly restored reef in the area.

Meanwhile, as part of the Coral Reef Restoration Task Force's activity, CTC assisted Mars Sustainable Solution, Nusa Dua Reef Foundation, and Bali Hai Cruise in determining the best location to relocate its coral restoration Reef Star structures that have been buried by sand. The Task Force assisted EHC Team in site assessment and selection, pre-habitat assessment, as well as Reef Star relocation and installation. This served as the Task Force's first task in assisting and providing technical support for reef restoration practitioners. The Bali Hai Cruise team successfully completed the MARRS method training which is needed in order to implement the method optimally and the team managed to install 40 new Reef Stars in their proper location.

In an effort to share lessons learned and best practices in reef rehabilitation amongst practitioners, the Bali Reef Rehabilitation Network (BRRN) came together on August to give an update on member-initiated rehabilitation projects around Bali. The Bali Reef Rehabilitation Network: Restoration Practices Webinar was attended by 121 participants from various organizations across Indonesia, including environmental organizations, universities, tourism operators, diving professionals, community groups, and government agencies.

The webinar speakers included representatives from CTC, Bloomberg Philanthropies Vibrant Oceans Initiative, Ministry of Marine Affairs and Fisheries Center for Coastal and Marine Resources Management (BPSPL) Denpasar, Marine Affairs and Fisheries Department (DKP) of Bali Province, experts from Dhyana and Institut Pertanian Bogor (IPB) University. The discussion involved the definition of 'success' in a restoration project and several approaches that have led to successful restorations, as well as social and environmental challenges one might encounter during the process. BRRN members (Mars Sustainable Solutions, Nusa Dua Reef Foundation, LNI, Bali Hai Cruise, Blue Corner Dive, Living Seas and Nuansa Pulau) gave updates on the status of their rehabilitation projects, lessons learned, and the challenges that teams encountered during project implementation. These gave an interesting overview of various methods including the MARRS method, block, long line and concrete method.

Participants also talked about the importance of method introduction, monitoring and maintenance plans for coral restoration projects, how to choose the appropriate method based on area characteristics, and the potential of attracting more interest from the general public through visual learning. At the end of the webinar, many participants expressed interest in learning more about coral restoration, including restoration methods that have been used outside of Bali. We hope that this enthusiasm will lead to more collaboration in the future, as a chance to keep learning from one another.



# OUTREACH AND COMMUNICATION

## Nordic Embassies in Singapore Bring Together Over 1,600 Runners to Support CTC's Conservation Programs

Using smart technology, the Nordic embassies in Singapore engaged their communities in a competitive run towards a greener environment as they celebrated the Nordic National Days from May to June 2021. The race, called 'The Nordic Green Run', jointly organised by the embassies of Denmark, Finland, Norway and Sweden, attracted more than 1,600 participants from the Nordic communities, including local runners, to run as many kilometers as possible to protect marine biodiversity by supporting the Coral Triangle Center. The runners completed over 46,000 kilometers, which is more than one circle around the world (40,000 kilometers). For every kilometer, sponsors will donate funds to support marine conservation programs.

In times of social distancing, creative solutions make up for social activities. In an effort to mark their National Days this year, the embassies combined creativity with technology and the idea of a digital community charity run was born. Runners were invited to connect online and register via a mobile app to form country-based communities and log their distances.

Mr. Niclas Kearnström, the Swedish Ambassador, said, "Today only one percent of international oceans is protected. The Nordic Green Run is a step in the right direction, contributing to protecting the oceans and creating marine protected areas, where every kilometer makes a difference!"

Mr. Antti Vänskä, Ambassador of Finland, said, "The world is facing environmental challenges that need everybody's involvement. Countries, companies, individuals, all have an important role to play. The Nordic Green Run did just that! It contributed kilometer by kilometer to cleaner oceans, to a better world, and it was a lot of fun!"

Team Norway won the race with more than 18,000 kilometers, ahead of Denmark with 17,000 kilometers. Ambassador of Norway, Ms Anita Nergaard, said "I am very excited by the wonderful effort by all runners for all four Nordic teams. Together we have shown the best of the Nordics for the benefit of clean and sustainable oceans, we have strengthened the friendship between Singapore and the Nordics, and we have forged stronger bonds within our communities."

CTC Executive Director Rili Djohani thanked the Nordic embassies for their outstanding initiative. "It was an amazing collaboration that successfully rallied thousands of people to take direct action in supporting marine conservation in Indonesia and the Coral Triangle. We are thankful to the donors for their generous support to this unique initiative. Our gratitude also goes to the runners who put in all their efforts and energy to raise funds to protect and restore our coral reefs and educate more people about the importance of saving our marine biodiversity. This innovative event inspires all of us and shows how we can collaborate across countries and sectors to protect our planet. Bravo to everyone involved in making this activity a reality."



**Hon. Sandra Jensen Landi**  
Ambassador of Denmark to Singapore

A shared interest for nature, environment and sports, together with digital habits, led to a huge number of runners joining, a crazy amount of kilometers and a great feeling of community. We enjoyed it - all, while running for a green cause - and that's the most important!

## CTC Joins Bali's Biggest Clean-Up 2021: Building Collaborative Movement for Our Ocean

This year, CTC coordinated its first ever beach clean-up during the pandemic as a part of One Island One Voice campaign and to mark Indonesia's National Day of Waste Awareness. We collaborated with Fairmont Sanur, Sustainable Suzy, and Banjar Semawang to clean up Semawang Beach. Bali's Biggest Clean-up this year, had 300 clean-up sites with more than 7,000 participants. Due to the pandemic, we limited the participant to only 25 people and implemented a high standard of Covid-19 health protocol by wearing a mask and keeping the distance of 1 meter apart. Started at 7 am with only one hour to 8 am, we had collected approximately 30 kgs of trash composed of around 25% plastic bags, 20% plastic bottles, 5% fishing net, and the rest of 50% are made of various waste such as cans, plastic straw, cigarette butt, and styro foam. One of the participants of the clean-up activity, highlighted the importance of collaboration in the pandemic situation to acknowledge nature as a part of the strategy to rebuild Bali ahead. With her strong message, we do also hope this little contribution will help to spread the awareness of reducing plastic waste as one of the ways to protect our ocean and coastal areas.



## Finding the Nexus Between Business and Environmental Conservation

CTC Executive Director Rili Djohani joined international experts in an online forum hosted by The Economist World Ocean Summit Insight Hour, entitled How Businesses Can Help Restore the Ocean Ecosystems. The forum explored innovative partnerships between companies, scientists and conservationists.



The experts, which included Prof. David Smith, Chief Marine Scientist, Mars Petcare, Jennifer Morris, Chief Executive, The Nature Conservancy, and Torsten Thiele from the London School of Economics, discussed how businesses that are dependant on marine resources - such as industrial fisheries or hot day beach resorts - have contributed to the destruction of biodiversity in oceans. This Insight Hour identified how business can be key drivers in restoring the regenerative capacity of critical ecosystems. For example, speakers shared a science-based approach to coral restoration and outlined how industry can help to create a market for sustainable seafood.

## Spreading Awareness About the 30 x 30 Global Initiative

CTC joined conservation experts in a virtual roundtable to spread awareness about the 30 x 30 global initiative: to protect 30% of the planet's terrestrial and marine habitats by 2030. The roundtable was entitled "Better Understanding of the 30x30 Target (Protected and Conserved Area Management)" and was jointly organized by the Embassy of France to the Philippines and Micronesia, the British Embassy in Manila, and the ASEAN Centre for Biodiversity.

Speakers from the various governments and non-government organizations from the Asia Pacific region highlighted the urgent need to protect land and marine areas in order to prevent the loss of habitats. CTC Executive Director Rili Djohani noted that the 30 x 30 initiative will have a critical impact in addressing threats to the ocean, specifically in the ASEAN and Coral Triangle countries, and the ecosystem services that oceans provide for fisheries, tourism and coastal protection. She added that in order for the initiative to succeed, there is a need to communicate what the global initiative means for those who will be implementing it on the ground.

She also noted that social inclusiveness and social equity have to be central in moving the 30 x 30 campaign forward. She said: "Critical in the process is the engagement of local communities in the planning and management of MPAs from the start and ensure they benefit from the MPAs and can continue sustainable livelihood activities in and around the MPA. Meanwhile, CTC is proud to support Brigitta Maria Andina Gurawan, a student of the Australian Independent School in Bali, Indonesia as the youth ambassador for the "30x30" Global Initiative in the upcoming UN Convention on Biological Diversity. CTC champions her awareness campaign, which uses underwater photographs to showcase the efforts of young conservationists in the Nusa Penida MPA who are helping to restore damaged coral reef ecosystems.



# CENTER FOR MARINE CONSERVATION

Learning About the Rich Biodiversity of Our Oceans through the Coral Dive School Marine Ecology Specialty Course



CTC's Coral Dive School is one of the activities under Center for Marine Conservation. The school provides courses such as Basic Snorkeling, Try Scuba, Marine Ecology Specialty, amongst others. However, with the Center closed during the pandemic, the school has shifted to delivering online classes to students across geographies.

Through these courses, participants are able to discover the wonders of marine ecology, learn how to identify fascinating and beautiful fish of all shapes and sizes and different types of coral reefs. What's even more special is that by taking these courses, participants are directly contributing to marine conservation as all proceeds will be used to support CTC's programs in Indonesia and the Coral Triangle.

In May, we conducted first batch of online marine ecology specialty courses with participants from academia, the diving community and CTC's staff. The marine ecology specialty course is delivered in collaboration with Scuba Schools International (SSI) and aims to provide information to the general public about the exciting science of marine ecology so they can become underwater naturalists in no time. The course includes self-paced study on the SSI website, a lecture and a final examination. The participants completed the final examination right after the two-hour lecture to get the certification under SSI International. Online courses on fish and coral identification followed the initial launch and successfully engaged students from Indonesia and the Coral Triangle.



**Andika Darmawan**  
CDS student.

I want to help the restoration of coral reefs, given the current conditions. Understanding the general concepts and existing systems can be the first step for me in starting and supporting the journey to protect the marine environment.

## Online Fun Learning Classes for Young Learners

Every year on April 22, people around the world celebrate Earth Day. Due to pandemic restrictions this year, CTC in collaboration with Saint John's Catholic School, Maruya, celebrated Earth Day through an online fun learning event. Attended by more than 100 pre-kindergarten and kindergarten students with teachers from Saint John's Catholic School, Maruya, CTC presented an online story-telling session with the kids.

During the event, the students had the chance to learn about the dangers of plastic in the ocean through a short storytelling session entitled "Who's the Blue?", which was presented using sea animal puppets made from dried palm leaves. Through this event, we aimed to increase awareness and engage the children from a very early age to understand the impact of plastic on marine animals. At the end of the storytelling session, the kids were also presented with fun facts about each of the marine animal characters used during the performance. CTC hopes that these kids will become future conservationists who take care of our ocean and our planet. The earth is what we all have in common, so it is our responsibility to keep it clean and sustain it for our future generations.



CTC also collaborated with Gummy Art Studio to deliver a series of online fun learning classes, bringing kids along for a virtual tour of life under the sea. Building on the theme of "Penjaga Bumi" or The Earth Guardian, the kids embarked on a mission to protect the ocean and all the living things that depend on it.

The program was attended by participants aged between 4 and 10 years old. Classes introduced the children to the beauty of the coral reefs and some interesting facts about marine animals. The fun learning class, which was delivered through engaging storytelling and virtual tours to the ocean, aimed to introduce students to marine ecosystems, marine animals and ways that we can protect our marine biodiversity. After the virtual tour, the kids were challenged to draw their own submarine which could help to clean up all the trash. The kids also created an environmental poster and a comic strip to inspire others to protect our environment. Out of all the artwork that was submitted by the participants, 8 winners were chosen for each of the categories.

We also organized an online fun learning class for school children in the Coral Triangle in November. The activity, entitled Discover the Life of Meri and Friends in the Coral Triangle Region, coincided with this year's World Children's Day, which encourages children to imagine a better world following the impacts of the COVID-19 pandemic. Through this activity, we aimed to inspire the next generation to envision a world where marine animals live in a healthy and abundant ocean. During the class, young learners aged six to ten years old went on a virtual tour to discover the beauty of our marine environment. They were also introduced to the threats that our marine animals and environment faces, such as plastic pollution.

We are looking to further expand our online learning activities for early learners by partnering with schools and learning centers that would like teach marine conservation to their students in a fun and engaging way.



## Coral Triangle Day: Online Musical Performance Featuring Wayang Samudra and Musical Duo Nova-Filastine

In June, CTC organized its first ever online musical collaboration between Wayang Samudra and musical duo Nova-Filastine. With the theme "Driving Blue Recovery for the Coral Triangle", the performance focused on how collaboration between humans and nature can be the answer to sustainable recovery in the Coral Triangle region. Nova and Filastine are artists and initiators of Arka Kinari, a ship that also serves as a platform for workshops and musical performances on environmental issues.

Wayang Samudra (Ocean Puppets) merges art and storytelling to spread ocean conservation awareness. CTC's Wayang Samudra performances highlight marine conservation and showcase the interrelationship between culture and nature. For this year's special performance, which was held at CTC's Center for Marine Conservation with a limited audience, Nova and Filastine highlighted their effort to sound the alarm for climate change, drive a blue economy for the oceans and re-engage with the sea through their song and music, and the magnificent Wayang Samudra performance, led by puppeteer I Komang Wardana with classical Balinese music, also enlivened the show.

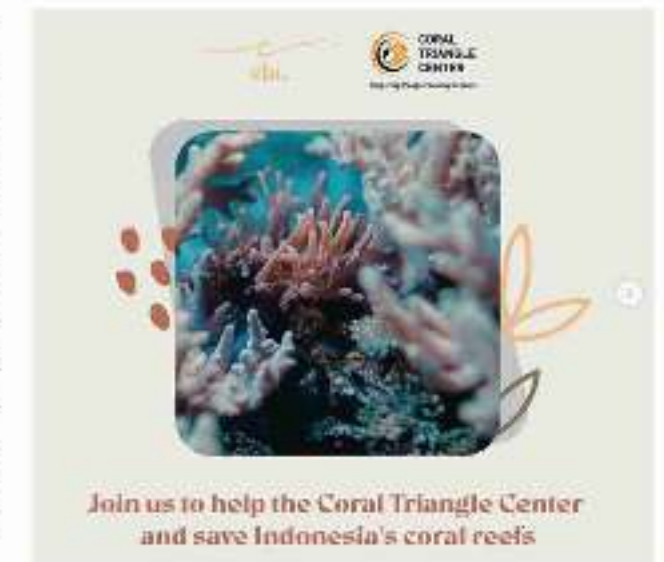
The performance was streamed live on CTC's Youtube channel, with more than 200 people joining online. All the proceeds from this event will be used to support marine conservation fun learning classes for school children in Coral Triangle countries including Indonesia, Malaysia, Philippines, Timor-Leste, Papua New Guinea and Solomon Islands.

Meanwhile, CTC Executive Director Rii Djohan, closed the event with special notes for all the sponsors and participants who made the event successful and hoped that we use the celebration of Coral Triangle Day as a time of reflection to acknowledge the importance of our oceans.



## Sustainable Wedding and Fashion for Coral Conservation

Collaborating together and working together are what bring great success to protect our ecosystems. This year, CTC was delighted to be a part of the sustainable wedding celebration of Kirana Agustina & Nanda Asradian Noor. The couple tied the knot in Bandung in April and invited all their guests to adopt a coral on their behalf. In collaboration with CTC, they provided an opportunity for their friends and family to give them a sustainable wedding gift while contributing to Mother Earth by adopting a baby coral. The donations that were made from their friends and family will go to CTC's Adopt-a-Coral program that supports coral reef rehabilitation in the Nusa Penida Marine Protected Area. "We know that even though it is now a pandemic situation, we can still do something for the local community and the environment. There is a phrase we like which is "love in the time of corona." We can also spread the love not only for ourselves but also for our environment. We are trying to do that, and hopefully, what we do can inspire other couples," said Nanda.



CTC also teamed up with Cia, a fashion brand from Yogyakarta, to inspire people to safesake our coral reefs. Through the collaboration that Cia made with CTC, they aim to take part in conserving Indonesia's coral reefs and marine life by raising awareness online and designing a collection that featured vibrant coral patterns. Cia took action in supporting CTC's Adopt-a-Coral program by adopting 23 baby corals. With their contribution, CTC was able to plant more corals in our nursery garden which is located in the Nusa Penida Marine Protected Area. Cia hopes that this collaboration will alert more people to the importance of coral conservation and restoration.

## "Coral Triangle": A New Painting Installed at CTC's Center for Marine Conservation

CTC's Center for Marine Conservation has a new painting by Bali-based artist Davina Elephens. The artwork, which measures 113cm x 243 cm, features the artist's signature style: utilizing wood blocks that she designed and carved by local artisans as well as colors that are applied in a "wash style." Davina calls the piece Coral Triangle - as it features a map of the region and a marine chart that show the areas where CTC works. The piece hangs at our Center's reception desk, welcoming every visitor to our learning facility. The story behind the artwork started due to Davina's and CTC's shared passion and value for underwater life and conservation. Having grown up enjoying the beauty of underwater life in many places in the Coral Triangle Region, she feels that this is the opportunity for her to contribute to the region through the artwork that she is passionate about.

Davina is a New Zealand born artist who has lived in many different places in the world. Everyone can find her passion for the ocean in her artwork collection called Divine Archipelago, which include images of coral, ocean bodies and landscapes on her website: [davinasdashens.com](http://davinasdashens.com)



## Center for Marine Conservation Re-Opening, Construction Completion, and Zero Waste Management System

In November this year, we once again were able to join our fun learning activities, creative workshops, and escape rooms. We continued to adhere to the guidance provided by the government and local authorities. Our number one priority is keeping all of our visitors and team members healthy. In order to keep everyone safe, we implement strict COVID-19 Protocols. We also limited the number of participants for each of our activities to further mitigate the risk of COVID-19 transmission.



In the same month, CTC completed the construction of the final phase of its Center for Marine Conservation marking the end of the Center's construction process. It is an important milestone, realizing our institution is growing in fulfilling our mission to inspire more people to care for the oceans. It also marks our transition to a sustainable organization, expanding and deepening our outreach and impact to a larger public.

The Center for Marine Conservation's final phase consists of an indoor Exhibition Hall on the ground floor and a virtual meeting room and work stations on the second floor. The indoor Exhibition Hall, which has a total floor area of 520 square meters, has a maximum capacity of 500 visitors. It has a large fan-cooled main exhibition area and two dedicated rooms that will house permanent interactive exhibits. The main exhibition area is equipped with natural ventilation to reduce carbon footprint and to adapt to the Covid-19 pandemic health protocols.

In parallel, we developed our permaculture garden and composting facility to highlight the connectivity of ridges to reefs and the importance of a zero-waste living to our oceans. The permaculture garden project is designed to support our new waste management system. This project marks an important milestone for CTC in our efforts to be sustainable in all we do. The permaculture garden is also ideal for our Center, where we have several plots of land to grow our fruit and vegetables in a sustainable way. The permaculture principles allow us to build a garden that relies on natural processes to promote growth and provide abundant fresh vegetables, fruit, flowers, and herbs.

Through our zero waste and permaculture garden project, we hope to lead by example and inspire visitors to adopt an eco-friendly lifestyle. This project will later be integrated with our fun learning activities at the CTC Center for Marine Conservation which promotes ecosystem balance and love for nature. Stay tuned for updates on our zero-waste management and permaculture garden projects!



## INSTITUTIONAL DEVELOPMENT

### CTC Welcomes New Board Members

In August, CTC welcomed four new board members from diverse backgrounds, who reflect our growth as a multi-faceted marine conservation organization. The new board members, who are highly-respected individuals from the coastal management, culture, business, and media sectors, will work closely with CTC's Senior Management Team, providing a high degree of counsel and close supervision of CTC's key activities.



#### Dr. Suseno Sukoyono

Dr. Suseno Sukoyono is a Senior Principal at the National Institute of Public Administration in Indonesia. Prior to his current role, he was an expert staff member at the Minister of Marine Affairs and Fisheries (MMAF) in the field of Community and Inter-Institutional Relations. He also served as the Director General of Marine and Fisheries Human Resources Development at the MMAF. In partnership with other public, private and non-governmental organizations, he encouraged and supported the establishment of a comprehensive and representative system of marine protected areas in Indonesia, which highlighted the importance of capacity building.

He believes the key to managing marine resources lies in how we manage and improve people. Dr. Sukoyono also served as Chair of the Interim Regional Secretariat of The Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security (CTI-CFFI), Secretary General of BI ORF Indonesia and Chair of the Indonesian Ornamental Fish Council. Dr. Suseno was born in Malang and received his PhD in Marine Technology from the Institut Pertanian Bogor (IPB) in Indonesia.



#### Dr. Hilmar Farid Setiadi

Dr. Hilmar Farid Setiadi is the Director General of Culture at the Republic of Indonesia's Ministry of Education and Culture. He is a historian, humanist, researcher and activist. In 1994, together with several artists, researchers, and cultural workers in Jakarta, he led the establishment of the Cultural Work Network. He has also published literature and conducted extensive research on Indonesian culture. In 2002, Dr. Hilmar was involved in the founding of the Indonesian Institute of Social History (ISSI) and was its leader until 2007. Together with ISSI, he collaborated with the Indonesian History Teachers Association to develop history teaching materials for secondary schools.

Currently, he is the chairman of the Prax's association. He is also the first person to occupy the position of Director General from a non-employment ministry level. Dr. Hilmar also teaches at the Jakarta Arts Institute (IKJ) and is active in various cultural forums such as the Asian Regional Exchange for New Alternatives (ARENA) and the Inter Asia Cultural Studies Society. He graduated from the University of Indonesia and the National University of Singapore.



#### Lin Neumann

Mr. Lin Neumann is the Managing Director of the American Chamber of Commerce in Indonesia (AmCham Indonesia), an association that represents about 300 US companies doing business in Indonesia. Prior to joining AmCham, Mr. Neumann was a journalist and consultant for many years in Southeast Asia and the US. He was the founding editor of the Jakarta Globe newspaper, and hosted Insight Indonesia, a talk show on BeritaSatuTV in Jakarta, from 2008-2012. He headed award-winning newspapers in Hong Kong, South Korea and Indonesia.

He co-founded an NGO in Thailand in 1995, and worked as a journalist in the Philippines in the 1980s. In the 1990s, he ran a radio station in California and headed two alternative weeklies - the Sacramento News & Review and San Francisco Bay Guardian. As a writer and foreign correspondent, he covered the Philippines, Burma in 1986, South Korea in 1987 and elsewhere. He co-founded the Southeast Asian Press Alliance in Bangkok in 1998 when he was working with the Committee to Protect Journalists. He also worked on press development in East Timor (2000-2003). He has consulted for the UN, UNDP, ASEAN, ADB, The Asia Foundation and private firms.



**Jason Tedjasukmana**

Mr. Jason Tedjasukmana is the Head of Corporate Communications at Google Indonesia. He was formerly a journalist and started his career at The Jakarta Post and RCTI's English section. He then joined Metro TV to create its first ever English-language news program, and later on became correspondent for Time Magazine. He was the president of the Jakarta Foreign Correspondents Club, an organization for foreign news correspondents based in Jakarta, for many years. In 2014, he became Head of Corporate Communications at Google Indonesia. He graduated from the University of Michigan.

**Scientific Advisory Board:**



**Dr. Rod Salm**

Dr. Rod Salm was raised in Mozambique and has a Ph.D. from The Johns Hopkins University. He has 30 years' experience in international marine conservation and ecotourism, working in the Indian Ocean, Arabia, the Caribbean, Central and South America, the Arctic and Antarctic. Although retired from full-time employment, Dr. Salm's principal focus remains conserving coral reefs in the face of global change, including warming seas, ocean acidification, and escalating use and threats. He is able to achieve this through his position as Senior Adviser Emeritus for The Nature Conservancy's Pacific Division Marine Program.

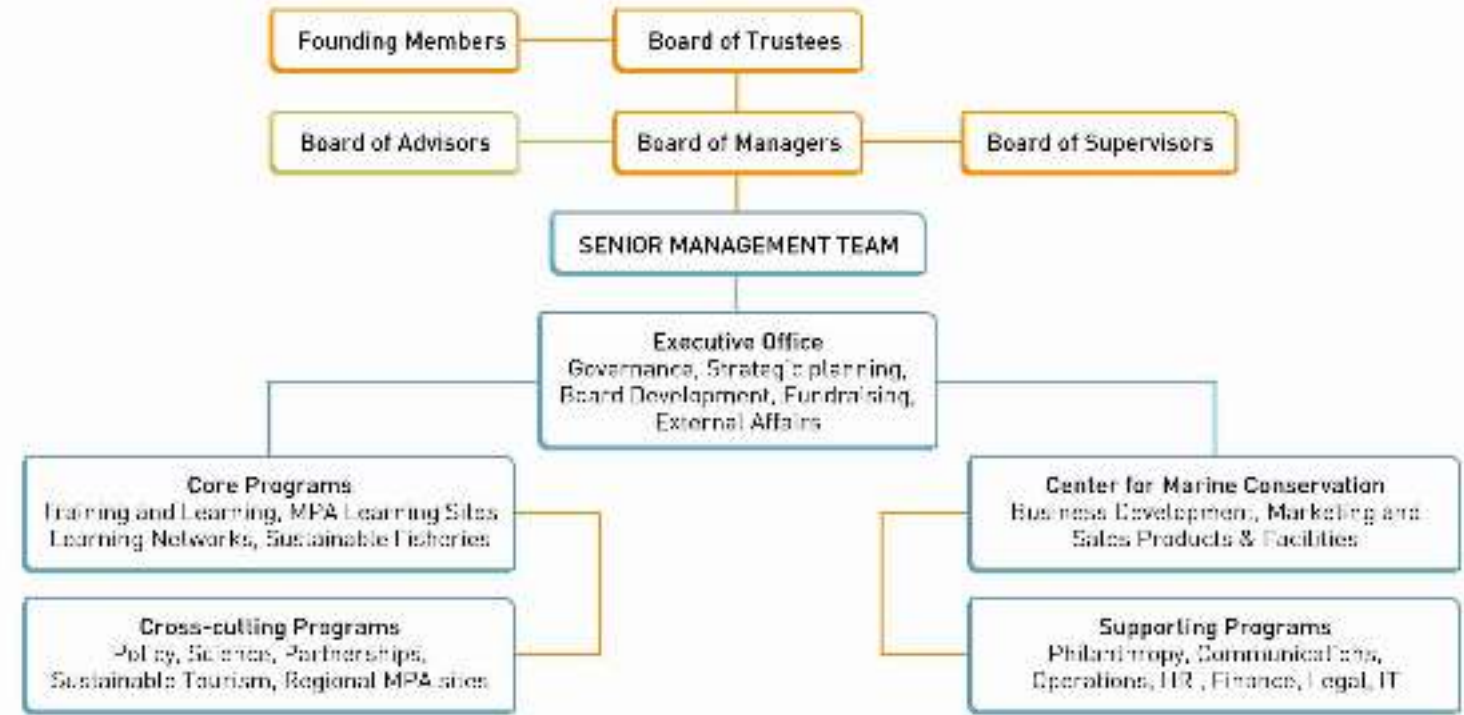
Dr. Salm is the author of *Marine and Coastal Protected Areas: A Guide for Planners and Managers*. Published by IUCN in its third edition in 2000, this book serves as a widely consulted reference for researchers and experts on marine conservation. In 1999, Rod joined The Nature Conservancy to head up marine conservation in Asia Pacific and was instrumental in developing The Nature Conservancy's Global Marine Initiative. His work had resilience to climate change as a principle focus and grew from the need for a field application response to coral bleaching in the western Pacific to a global program on coral reefs and resilience. Based in Honolulu, Hawaii, Rod moved from Director of the Conservancy's Asia Pacific Marine Program, Coral Triangle Program, and Marine Science and Strategies Team, to Senior Adviser of the Pacific Division Marine Program.

In addition to development and stewardship of innovative science and management strategies for tropical marine ecosystems and species, Rod has played a strong role in training and mentoring conservation scientists from many countries. He has done this to assist them in both interpretation and field applications of science to conservation practice and to help guide in their career development.

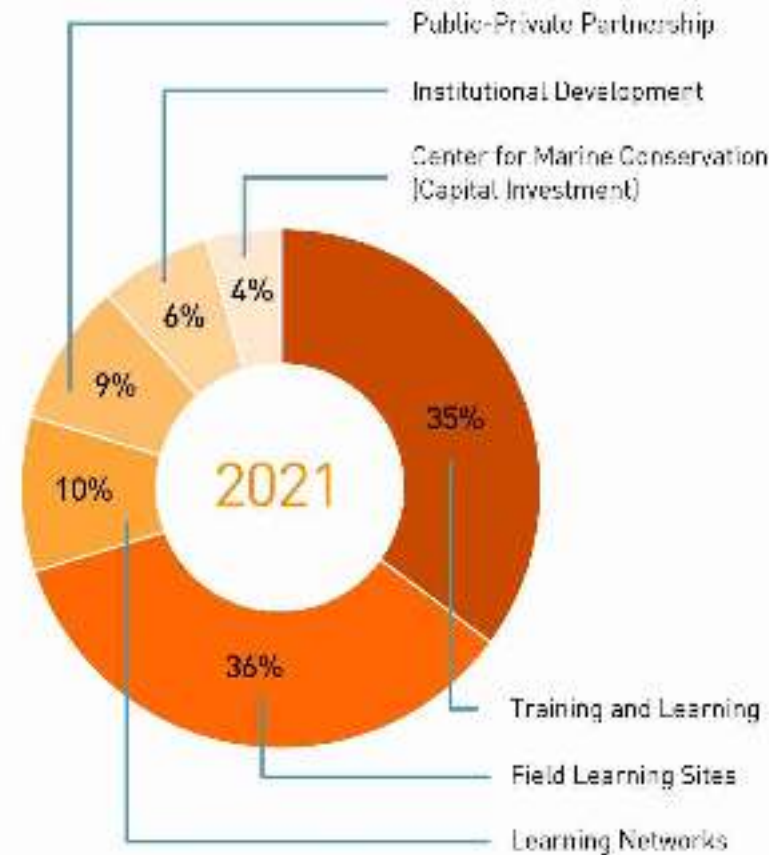


# ORGANIZATION CHART & FINANCIAL SUMMARY

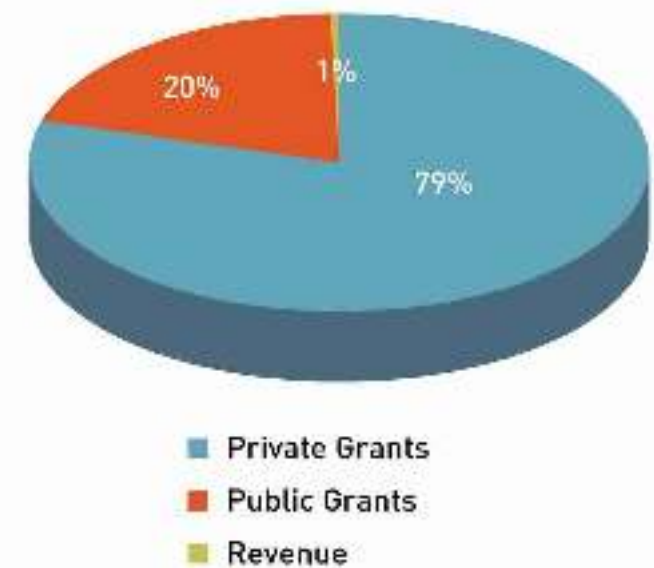
**CTC ORGANIZATION CHART**



**CTC SPENDING ALLOCATION BY STRATEGY 2021**



**ACTUAL INCOME 2021**



# COLLABORATION

## National Governments in the Asia Pacific Region

01. Coral Triangle Initiative for Coral Reefs, Fisheries and Food Security (CTI-CFF) Regional Secretariat and National Coordinating Committees
02. Ministry of Agriculture and Fisheries, Timor-Leste
03. Center for South China Sea Studies of Ministry Foreign Affairs
04. Department of Marine Parks, Malaysia
05. Partnerships in Environmental Management for the Seas of East Asia (PEMSEA)

## Ministry of Marine Affairs and Fisheries (MMAF) of the Government of Indonesia

01. MMAF Human Resources & Community Development Agency (BTEDEKAP)
02. MMAF Directorate of Research, Directorate (KRI)
03. MMAF Directorate Marine Biodiversity Conservation Area (KBHLA)
04. MMAF Fisheries Training Center in Denpasar
05. MMAF Fisheries Training Center in Jepel
06. MMAF Fisheries Training Center in Amboin
07. MMAF BPSPL Denpasar
08. MMAF Balai Kawasan Konservasi Perairan Nasional (BKKPN) Kupang
09. MMAF Penagawa Sumberdaya Kelautan Pas Banda

## Provincial Governments and Agencies

01. Bali Provincial Government (Dinas Kelautan dan Perikanan)
02. NTT Provincial Government (Dewan Kawasan Konservasi Perairan Nasional - DRKPN)
03. Maluku Provincial Government (Dinas Kelautan dan Perikanan)
04. Klungkung District Government (Dapet, Dapedo, Dinas Perikanan - Perikanan dan Kelautan, Dinas Perikanan)
05. Klungkung Regency Government (Pemerintah Klungkung)
06. Coastal Marine District Government (District Planning and Marine Fisheries Office)
07. Sorong Timur District Government (Dinas Kelautan dan Perikanan)
08. Center for Innovation Institute for Marine Crew Competence (ICMCC) (Berbagai Cara Ploasi Perikanan Kelautan)
09. Pusat Pelatihan Mandiri Kelautan dan Perikanan (PMKMP)
10. Jabat Teknologi Industri Kreatif Keramik (JUDI-KIRK)
11. Jabat Pengolahan Mutu Mangrove Wilayah

## Non Government Organizations

01. International Coral Reef Initiative (ICRI)
02. Global Ecosystems Tourism Council (GETC)
03. International Union for Conservation of Nature (IUCN)
04. The Nature Conservancy (TNC)
05. World Wildlife Fund (WWF)
06. Conservation International (CI)
07. HARB Conservation
08. Conservation Strategic Fund (CSF)
09. Pusat Pendidikan Lingkungan Hidup (PEL-H) Bali
10. Yayasan Riset dan Nelayan - Bali
11. Yayasan Riset Wisata, Nusa Tenike
12. Friends of National Park Foundation - Nusa Penida
13. Yayasan Warisan Budaya Bangsa Nelayan - Kabupaten Janda
14. Aquatic Alliance Foundation
15. Yayasan Masyarakat dan Perikanan Indonesia (MKPI)
16. Mission Blue
17. Plastic Pollution Coalition
18. Reef World Foundation
19. Environmental Defense Fund (EDF)
20. Seafaring Resources
21. Oceanic Society
22. Lembaga Partisipasi Pembangunan Masyarakat (LPPM)
23. eL SIL 4to Home
24. Yayasan Bali Sea
25. Raja Foundation
26. Australia Volunteers International (AVI)
27. Studio Selamberg
28. Seattle Aquaculture
29. More Sustainable Solutions

## Academic Institutions

01. Australia Tropical Marine Alliance (ATMA)
02. Murdoch University - Australia
03. Georgia University - USA
04. Wageningen University - Netherlands
05. Western University of Australia
06. Victoria University of Technology - Hongkong
07. Indonesian Institute of Science - IRI
08. Institut Pertanian Bogor - IPB
09. Brajajava University - UNIBRAW
10. Udayana University - UNUD
11. Hasanudin University - UH-AS
12. Diponegoro University - UNDIP
13. Padjadjaran University - UNPAD
14. Universitas Gadjadara in Bok
15. Sekolah Tinggi Perikanan - STP
16. Universitas Pendidikan Ganesha Singaperaja - UNDIKSA
17. University of Bahrain
18. Sekolah Tinggi Perikanan Hatta Syahril
19. University of Darmasera

## Private/Corporates/Agencies

01. World Ocean Council
02. Young Professionals Organization
03. National Geographic Society
04. Asian Geographic Magazine Pro Ltd
05. The Body Shop Indonesia
06. Jenggala
07. Great Tubby Sweet
08. Karamah
09. GummyDoo
10. OceanBelle
11. HADU
12. Hotels in Bali (Herd Keep Hotel, Bali Fairmont, Mercure, Sucasana, Prama, Sarun Paradise, Tanjung Sari)
13. Dive Operators Community Semedi (DDOK)
14. GAWANSRI Bali
15. GAWANSRI Maluku
16. Seafaring Tours
17. Duffalo Tours
18. Home Mer
19. Sustainable Solutions
20. Studio AVS

## Bali and Nusa Penida

01. Lembaga Marine Association
02. Nelayan Lembaga World Diving
03. Lembaga Dive Center
04. Lembaga Dive Operator Association
05. Blue Canyon Dive Center
06. Big Fish Dive Center
07. Two Fish Dive Center
08. Bali Hal Cruise
09. Crystal Dive Center
10. A-Diving
11. The Dive Center Marine Adventure
12. LivingSeas
13. Bali Diving Academy
14. Caringan Uluwa Resort
15. Reef Seen Resort

## Maluku and North Maluku

01. Blue Water Dive Center
02. Mela Lodge
03. Pac Dive

## Community Based Organizations (CBOs)

### Bali & Nusa Penida

01. Setya Posera Nusa
02. Gajagi Buana Nusa
03. Majelis A.T
04. Forum Karna Nusa
05. Mangrove Team Jungut Batu
06. Forum Pektan Rumpul Laut
07. Forum Nelayan
08. Karang Teruna Sarun Kajan
09. Yayasan Pembangunan Sarun
10. Karang Murni Nelayan

### Banda

01. Karang Karang Karang Masyarakat Pulau Ay
02. Karang Karang Karang Karang Pulau Blum
03. Karang Karang Karang Karang Pulau Hatto
04. Karang Karang Karang Karang Pulau (KKKB)

### Lesser, Sula and Buana Islands

01. Maldives Coastal Care (MCC)
02. Happy Green Islands (HGI)
03. Kikis Gajiji Perikanan Maluku
04. GPJ Komite Nasional Pemuda Indonesia (KNPI)

## Donors

01. Synchro Foundation
02. Rainbow Foundation
03. David and Lucie Packard
04. Margaret A. Long, Philanthropies
05. Walton Family Foundation
06. Critical Ecosystems Partnership Fund (CEPF)
07. Waterless Foundation
08. National Geographic
09. Lord Beck Hotel (Dai)
10. USAID Sustainable Ecosystems Approach (SEA) Project
11. USFWS (United States Department of Interior)
12. Australian Government (Department of Environment & Energy)
13. AusAid (Part of an Sustainable Growth Deal)
14. US Environment Programme
15. Arsons and Timber Seas Ecosystem Approach (ATSEA)
16. Bloomberg Philanthropies



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© Pindora/CTP

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