











# SEA TURTLE CONSERVATION TRAINING FOR COMMUNITY IN TIMOR-LESTE

2022

This report is prepared by Dwi Suprapti for the Arafura and Timor Seas Ecosystem Action Phase II (ATSEA-2) Project. December 2022

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# Suggested Citation:

Suprapti, Dwi (2022). Sea Turtle Conservation Training for Community in Timor-Leste. Report to the Arafura and Timor Seas Ecosystem Action Phase 2 (ATSEA-2) Project, Bali, Indonesia. 24p.

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# Published by:

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Cover Image: Sea turtle conservation group in Com Village, Lautem

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# I. INTRODUCTION

#### BACKGROUND

The Arafura and Timor Seas (ATS) is part of the North Australian Shelf large marine ecosystem, which is a tropical sea lying between the Pacific and Indian Oceans and extending from the Timor Sea to the Torres Strait and including the Arafura Sea and the Gulf of Carpentaria. The region is adjacent to the Coral Triangle, which hosts the world's highest marine biodiversity and contains some of the most pristine and highly threatened coastal and marine ecosystems. At the regional scale, the ecosystems of the ATS play an important economic and ecological role in the littoral nations bordering the Arafura and Timor Sea: Australia, Indonesia, Papua New Guinea, and Timor-Leste.

ATSEA-2 is the 2<sup>nd</sup> phase of the GEF-financed, UNDP, and PEMSEA-supported Arafura and Timor Seas Ecosystem Action (ATSEA) program. This 5-year project will support the implementation of the following governance and environmental objectives of the ATS regional Strategic Action Program: (i) Strengthening of ATS regional governance; (ii) Recovering and sustaining fisheries; (iii) Restoring degraded habitats for sustainable provision of ecosystem services; (iv) Reducing land-based and marine sources of pollution; (v) Protecting key marine species; and (vi) Adaptation to the impacts of climate change.

In connection with protecting key marine species, specifically in Timor-Leste, the ATSEA-2 Project established a pilot project to improve community-based sea turtle conservation and ecotourism in Lautem Municipality (specifically Com, Muapitine and Mehara villages), by working with the existing community groups, especially women. As part of the pilot project, it is important to ensure the community groups who run the community-based sea turtle conservation and ecotourism understand and employ the best practices so that the practices can be sustainable in the long term. To do so, the ATSEA-2 National Coordination Unit (NCU) of Timor-Leste commissions a local NGO, Prospek, to run a sea turtle conservation project in Lautem Municipality and assist the community, while the ATSEA-2 Regional Project Management Unit (RPMU) will support the conduct of a capacity building program for the community.

A capacity-building program in the form of training is needed to provide the correct information and improve sea turtle conservation and ecotourism management skills in Lautem Municipality. It is also expected that this training can provide a first-hand description of technical data collection, monitoring of sea turtle nesting, and relocation of nests (if needed) so that hatchlings are produced with a minimum hatchability of 70%. Proper sea turtle conservation and management will contribute to maintaining sea turtle populations in nature so that they can continue to provide ecological, religious, and economic benefits for the coastal communities.

# **OBJECTIVES**

The training was conducted to build the community group's capacity to deliver community-based sea turtle conservation and ecotourism. The training covers the biology and ecology of sea turtles, community-based monitoring/patrol, sea turtle bycatch mitigation, and sea turtle-based ecotourism best practices.

#### **EXPECTED OUTPUTS**

- 1. Information from a rapid assessment regarding the conservation status of sea turtles on the nesting beach in Lautem Municipality, Timor-Leste;
- 2. Training participants to know and understand the status of sea turtles and their problems, both nationally and internationally;
- 3. Training participants know the correct procedures for turtle conservation (Code of Conduct/CoC);
- 4. Training participants know the procedures for having sea turtle-based ecotourism (CoC of Turtle Ecotourism);
- 5. Training participants to understand sea turtle data collection and relevant monitoring techniques;
- 6. Training participants to know the procedures for handling stranded and/or bycaught sea turtles.

#### DATE AND PLACE

The training was held from 28 to 30 November 2022, including one day for preliminary observation and discussion in Los Palos, Lautem Municipality, Timor-Leste. The training was conducted in person.

# **RESOURCE PERSON**

The main resource person for the training is Drh. Dwi Suprapti, S.KH, M.Si. She has over 15 years of experience in the field of sea turtle conservation, especially in Indonesia.

## **PARTICIPANTS**

The number of participants in the training is 37 people, including the community group and local government representatives. Three persons from Prospek NGO also attended the training.

### TRAINING AGENDA

Date	Time (GMT+9)	Agenda
28 Nov 2022	05:00-11:00	Travel from Dili to Los Palos
	11:00-15:00	Assessment of sea turtle nesting beach and discussion with a
		community group
	18:00-19:00	Dinner
	19:00-21:00	Material update based on the assessment
29 Nov 2022	09:00-11:00	Opening remarks
	11:00-11:15	Pre-test Pre-test
	11:15-11:30	Coffee break
	11:30-01:00	Introduction to sea turtle population status in the ATS region
	13:00-14:00	Lunch break

	14:00-14:15	Video on turtle life
	14:15-14:30	Discussion
	14:30-16:30	Sea turtle biology and ecology
	16:30-17:30	Discussion
30 Nov 2022	09:00-11:00	Sea turtle identification technique and morphometry
	11:00-11:15	Coffee break
	11:15-13:00	Code of conduct of sea turtle-based ecotourism
	13:00-14:00	Lunch break
	14:00-15:30	Sea turtle relocation and hatchling handling techniques
	15:30-16:00	Sea turtle bycatch and handling techniques
	16:00-16:15	Post-test and training feedback
	16.15-17.00	Closing training

#### II. **RESULTS**

# RAPID ASSESSMENT OF SEA TURTLE CONSERVATION ACTIVITIES IN COM **NESTING BEACH**

Timor-Leste coastal area is an important habitat for sea turtles. There are at least four species of sea turtles that lay their eggs on the coast of Timor-Leste, namely the olive ridley turtle (Lepidochelys olivacea), green turtle (Chelonia mydas), hawksbill turtle (Eretmochelys imbricata) and the leatherback turtle (Dermochelys coriacea). Based on Wikipedia (2022) Timor-Leste has a total beach length of 706 km. Of the total length of the beach, several locations are favourite areas for turtles to lay their eggs, including Com beach.

Com Beach is a beach located in the village of Com which is in the northern part of Lospalos and is part of the Nino Konis Santana National Park. This coastal area is not that long, it is estimated that it only reaches approximately 1 km. Even so, this beach is an option for turtles to lay their eggs. Based on the results of the rapid assessment, it is known that there are at least 3 species of turtles that nest at this beach to lay their eggs, namely the Olive ridley turtle, the Green turtle, and the Hawksbill turtle. Of the three species, the Olive ridley turtle is the dominant type of turtle that lays its eggs on this beach.

Olive ridley turtle or Safa in local language is a sea turtle that has the characteristics of making turtle egg nests with a relatively shallow depth of 30-50 cm. This actually makes turtle egg nests easy for predators and humans to dig up. So, it is not uncommon for Olive ridley turtle egg nests in this area to be unsafe either due to damage by predators such as wild dogs or hunting activities (Poaching).

Based on the results of non-intensive monitoring from the turtle conservation community group Com Village, in one-year turtles nest on this beach around 25-30 nests. From these nests, almost 100% of the turtle eggs are hunted and consumed by local people if relocation and intensive monitoring are not carried out. Therefore, the sustainability of sea turtle population in this area is threatened due to over-exploitation.

Seeing these conditions, the sea turtle conservation community group in Com Village felt the need to relocate all turtle egg nests to be able to secure the eggs from predators and massive poaching. But unfortunately, this relocation activity was not accompanied by knowledge and research on both nest transfer techniques and locations that became relocation areas, as a result, the hatchability of eggs (hatching success) was very low, even less than 30%.

According to group members, the hatchlings that hatched are then reared in plastic containers for a certain period of time, sometimes even more than 1 month. As a result, many hatchlings are weak, sick, and even die before being released. This then prompted the desire of community groups, local government, and NGOs (Prospek) to make a more adequate rearing pond, namely a 3 x 3-meter ceramic pond so that it can accommodate and raise hatchlings before the release event.

So based on the assessment obtained, the Trainer obtains sufficient information on matters that need to be corrected and that need to be explained theoretically in the presentation material so that the training participants understand the rules of turtle conservation properly and correctly. This information also forms the basis for formulating recommendations.

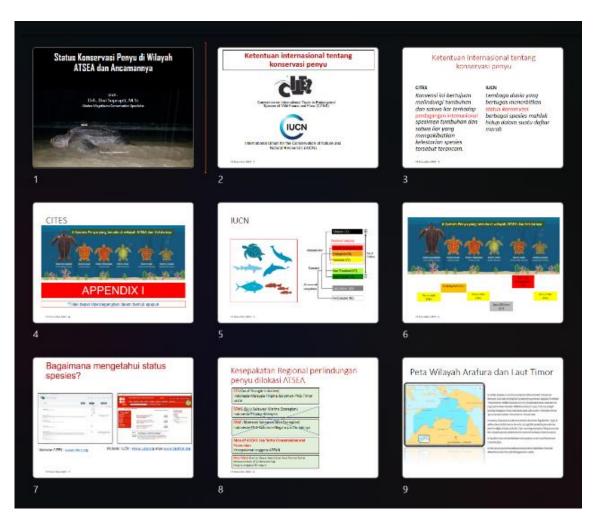
#### TRAINING MATERIALS

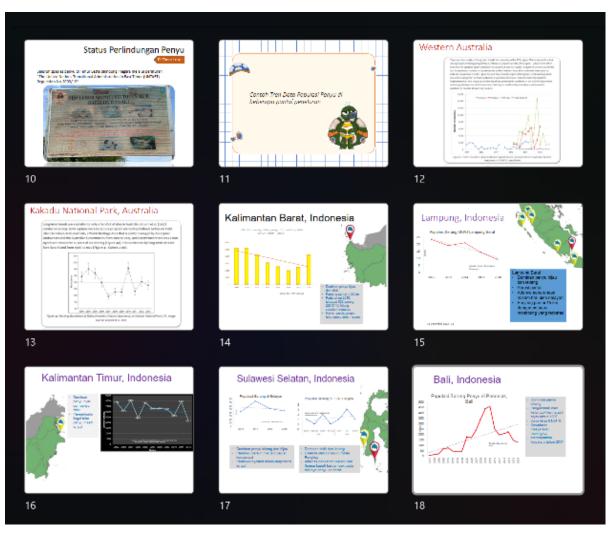
The following is material presented in the basic sea turtle conservation training for the coastal community of Com village. The materials were packaged and delivered in Indonesian considering the trainer's limitations in Tetun language. The materials were presented in the form of Powerpoint, video, and dummy. The materials were packaged in a concise form which was then conveyed and explained by the Trainer to the participants in sentences that are easy to understand, interactive and provided both verbal and visual descriptions so that participants can receive the materials as well as possible.

The following are some of the materials presented in the training.

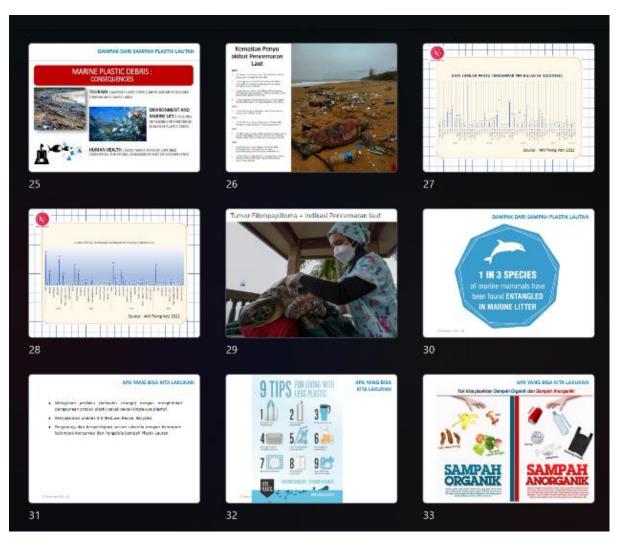
1. Status of Turtle Conservation in the ATS Region and the Problems

This material tells about the status of turtle protection both internationally (CITES and IUCN), regionally, and nationally. In general, turtles have received full protection in ATS countries which include Indonesia, Timor-Leste, Australia, and Papua New Guinea. This material also explains trends in population data on various nesting beaches, but unfortunately, Timor-Leste does not yet have a series of data on turtle nesting that can be published. For this reason, the emphasis in this presentation also includes the importance of population status data on each nesting beach, including Com beach, Timor-Leste. The material closes with an overview of the importance of turtle conservation and the various threats experienced by sea turtles causing their populations to decline.







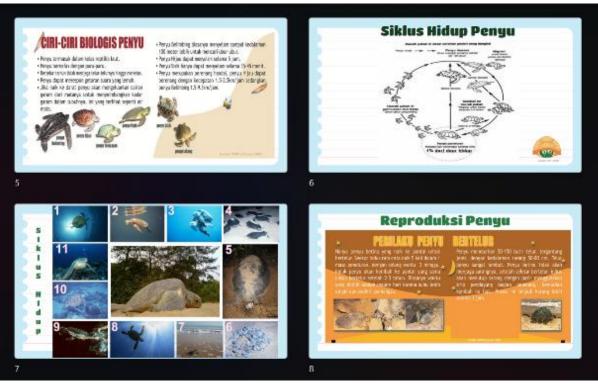




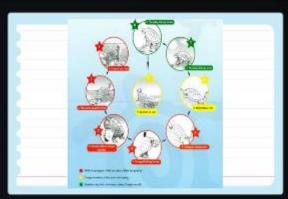
# 2. Sea turtle bioecology

This presentation explains the biology and ecology of sea turtle life starting from its species, food, life cycle, reproduction, nesting tracks, anatomy of adults and hatchlings to their migration patterns. Knowing turtle bioecology, it is hoped that participants will understand the life of sea turtles with long life cycle, slow breeding and their enormous life threats.





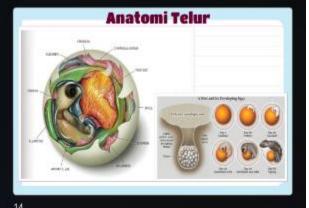






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Perya Plat	Water & Stang	±91	±3	±9-23	±3
Регуи Кетрі	Sarg	=85	+2	± 20 - 25	
Peryulekang (Baik Semi)	Malam	=65	±3	±14 - 32	
	Malam & Stang	±79	±3	±11 2E	
Forya Tempeyan	Malam	±87	±4	113-17	±3

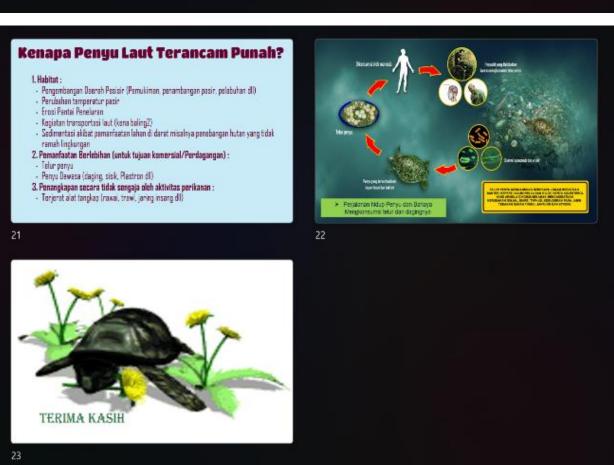




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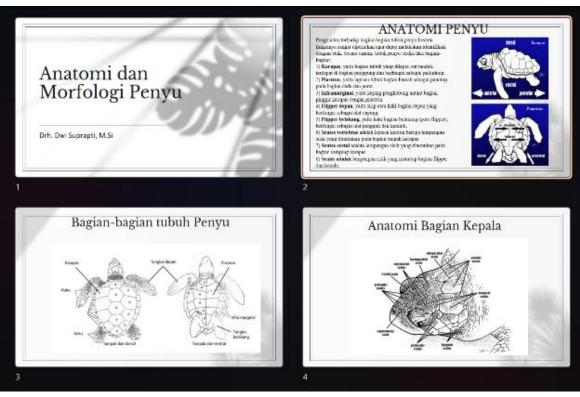


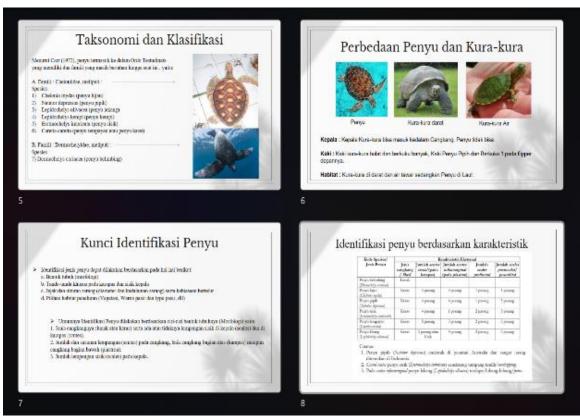


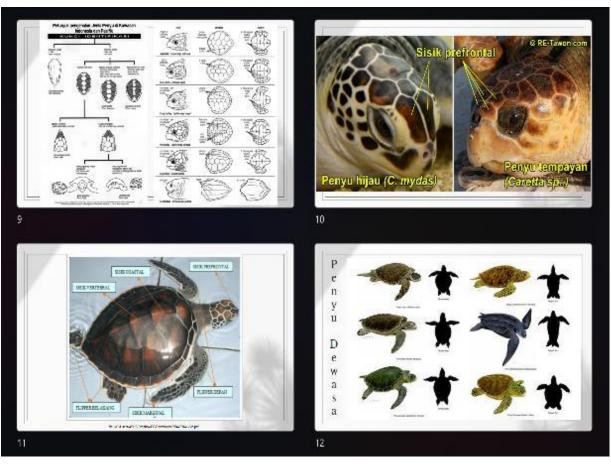


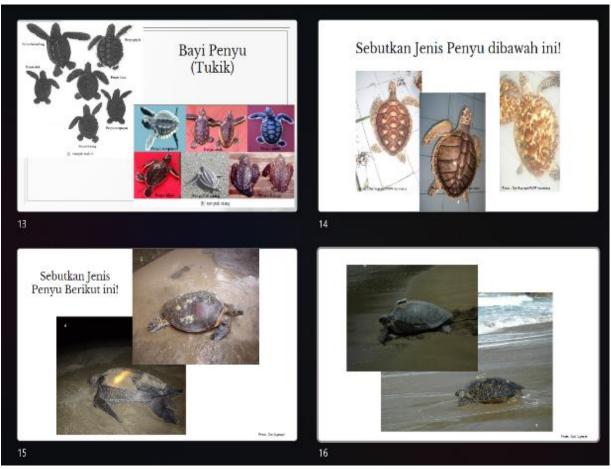
# 3. Anatomy and morphology

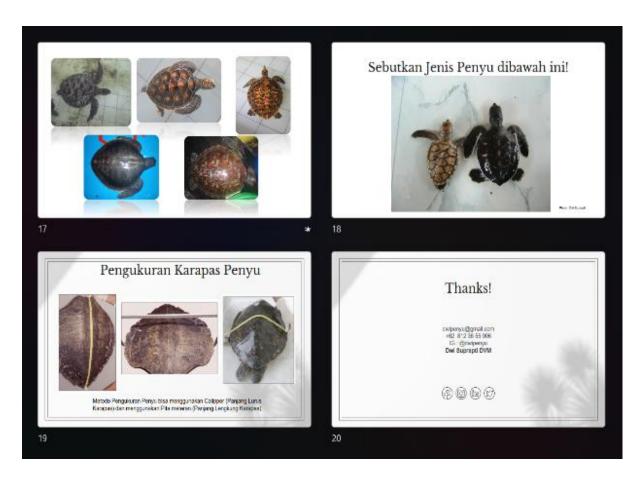
This material explains the anatomical structure of turtles, taxonomy, classification, turtle identification techniques and turtle measurement techniques. It is expected that by delivering this material the trainees will be able to differentiate each species of sea turtle based on its anatomical characteristics.





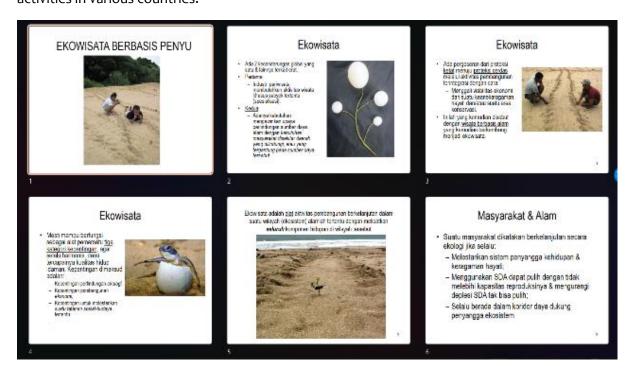






# 4. Turtle-based ecotourism

This presentation material explains turtle-based ecotourism both the advantages and problems. In addition, this material also provides an overview of the success of sea turtle-based ecotourism activities in various countries.





- Status dilindungi (karena terancam punah) vs. eksistensi pemanfaatan (telur, daging, cangkang, plastron, & minyak) oleh banyak kelompok masyarakat (karena bernilai ekonomis tinggi)
- Upaya penegakan hukum tak pemah efektif. menimbulkan efek jera
- Apakah ekowisata berbasis penyu adalah suatu solusi?

# Ekowisata berbasis penyu

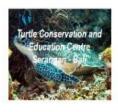
Pelajaran dari tempat lain



Dibergun tehun 2004 dieh Penda Bali & WWF dengan dukungan KSDA Bali & Universitas Udayana

### Tujuan utama:

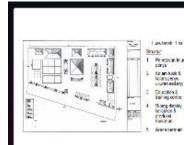
Mengurangi tingkat perdagangan & konsumsi penyu yang dilangkap dan alam



#### Tujuan ...

- Sumber kegiatan ekonomi bag (sebagian) masyarakat
- · Menjaga & revitalisasi pemanfaatan penyu untuk kepentingan ritual-keagamaan





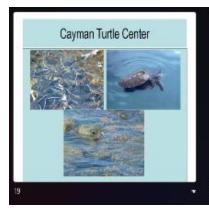












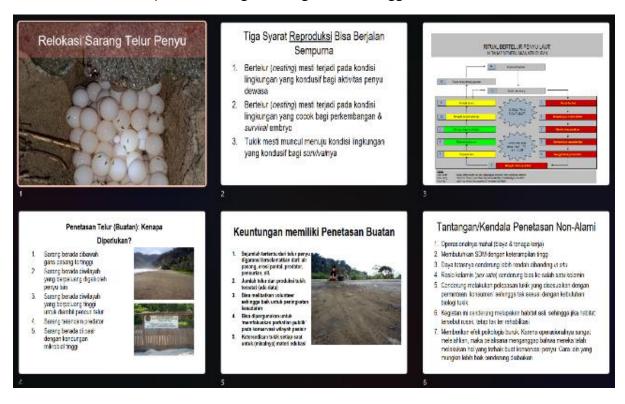






# 5. Turtle Hatchery

This material explains the conditions for nest relocation, the advantages, and challenges of nest relocation, the location and design of the hatchery to the relocation technique. The material is closed with the technique of releasing hatchlings when the eggs have hatched.



#### Lokasi Membangun Penetasan Buatan

- sedekat mungkin dengan panta pene atan
  - Unimalization one task hid felor seel relokasi
  - Virtimateurs interval year to entered seat dile arrors den dissent dil peretecan non alcon? Verdedias l'ecerpatin bag entryo 6 tutik unali reptir lingi di krepat poncusas
- Fasilitasi pelepasan kulik yang labih saik



#### Lokasi penetasan

- Mesh sausuhning dengan takas pesebasah atan Bebas kembetan (sembeti, ndimbe, segaran, aras bagin an pekentakan dintabat, sikan buatan)
- legic igan ala m bargan perdasain dibeberasa legic igan berbela, untuk memerikan legic inger intubusi yang kematosi Sebisanya tindah menggi inton ketan atyerban

- Tidak spesifik, namun bebas & bertanggung jawah
- & bertanggung precision maka Jika banyak precision maka penetasah mesti dipagan (tembak, sawat, piseak, dili) Peretasan mesh diatur sadamittan rupa mikes habitat berkartasi Bentuk penetasan disesuaikan kondisi bikal
- Dilokasi yang tak bervegetasi, maka dipertukan pelindung panas



# Perlindungan (Shading)

- Digeth, one jiga temperahar sessing transismo subtar alang obtained 2000 jethese persel.
  Finds temperahar sessing 3000, semasa semasa mali langut ladar sengang yarkang alang temperahar senang.
- Exhibition, 2012 30 larger boods. 2012 https://doi.org/10.100/

ater, secretor dure??? Departer a pla temperatu exemp tab discolati???



# Kaidah Umum

- Penetasan handaknya dibangun beberapa unit untuk menjaga. diversificasi kondisi tempat telur ditetaskan 6 juga diversifikasi tempal palapasan takik
- Penelasan handaknya dipangun di area yang sebalaknya 1 m lebih. tinggi dari pasang tertinggi turtuk menghindari rendaman an bawah semutaan)
- Pastikan penerasan terpagan dengan baik. Sebaknya tanam janng rykon (labar 1-2 m; diametar 1 cm) sedalam setidacnya 0.5 m d bawan dasar pagar
- Sebaknya jangan gunakan penersaan buatan lebih dan  $\geq$  muaim sortolur (korena sudah tercoman janun di)

# Yang Kiri Lebih Baik dari yang Kanan

Desain Penetasan





# Relokasi Telur Penyu

- Telur penyu nu tak ditaki rikan umuk dipindah
   Mentanashpur arang sangar mutah diak jianak di aka tjurangar Bahkar ang rama dibasar.
   Sekesakan na akasi diaan 2 jam dar saat di akukan
- Numerical perdiciples (1 1970) do an interview an emission original door intermediate forms manifest entray risk. In inequalitation modes also design peak (200 km)
  Pergundam stiffleded committee Loon beak emiser persegifoundar disending las.
- etar jangan diduci dan ditanam dengan kedalaman yang sama dengan situas alamah Attir (mak amor smang)
- Hindan menggunakan proting dewee untuk menenukan lelur.
  Telunyang pecah bisa mengkontani yang lain.

#### Relokasi Telur

- ngat terbaik dilalukan dalam kurun 2 jam dari saat keluar Idoaka
- Leat dar 5 em tak di rekomendas kan
- Telur bise diambil/tangkap langsung saat keluar
  - Hati-hati agar tidak merunak lubang talur

#### Penanaman Telur

- Lubang mesti dibuat. menyerupai (ukuran & bentuk) sarang asli
- Jarak penanaman telun satu dengan lainnya tak kurang dari 1 m
- Telur mesti ditutupi dengan pasir lembab



### Protokol Umum

- 1. Bersihkan pentai
- 2. Monitor/amankan penyu bertelur (catat data desert
- 3. Relokasi telur
- 4. Catat data yang relevan dengan sarang (tanggal ditelurkan, perkiraan menetas, persentase menetas)
- 5. Catat jumlah tukik yang dilepas ke laut

### Pelepasan Tukik

- Lepas berkelompok pada posisi & waktu 'random' di pantar peneluran
- Hindari fish feeding station
- Idealnya sessari setelah muncul ke permuksan
- mpanting alami bisa dilakukan dengan membiarkan tukik bergerak bebas di pantai menuju air laut.
- Jika pelepasan mesti ditunda, letakkan tukik pada container yang lembut dan lembab dalam suasana sejuk, gelap & sunyi tenang. Jangan disimpan di container yang tensi air





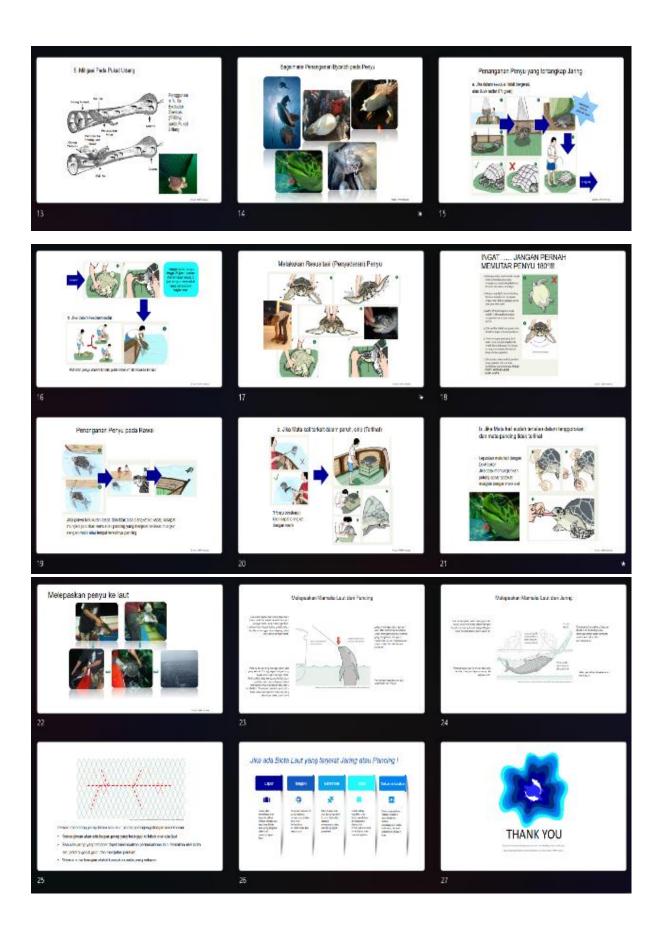




# 6. Bycatch mitigation

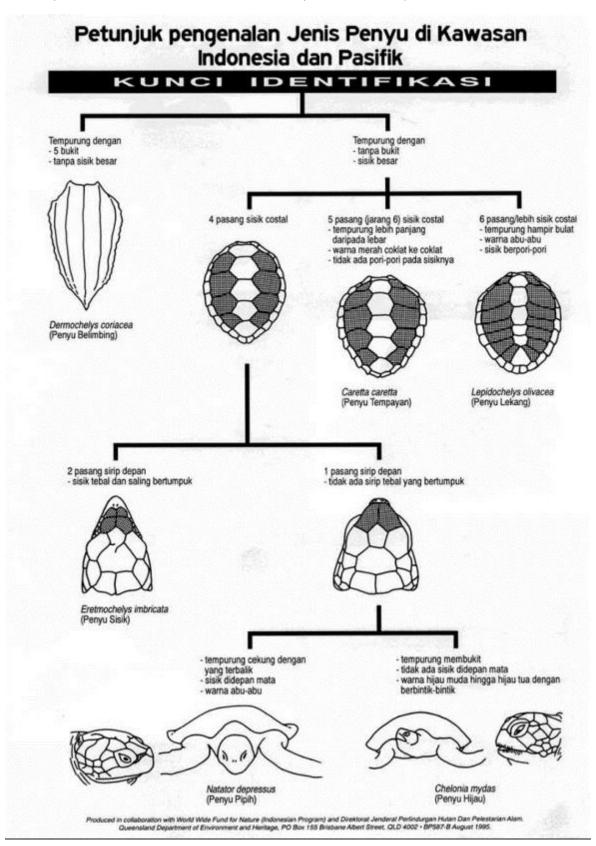
This material describes techniques for handling sea turtles and other marine biotas that are entangled in fishing gear (bycatch). The material begins by explaining the potential threat of bycatch from injury to death. This material also explains the phenomenon of bycatch in the world of fisheries, mitigation techniques, and handling if bycatch occurs to increase the chances of survival for sea turtles that experience bycatch.





# 7. Identification techniques

The following is a guide to help identify 6 types of turtles that are commonly found around ATS waters (Indonesia, Timor-Leste, Australia and Papua New Guinea).



#### TRAINING RESULTS

To measure the success of the training, pre and post-tests were carried out for all training participants. The questions given prioritise basic knowledge in differentiating turtles and tortoises and their identification, as well as knowledge about relocating nests and releasing hatched hatchlings. This type of question was chosen based on the results of the assessment when the training participants still could not differentiate all species of turtles and still believed that relocating and caring for hatchlings were the best strategy of sea turtle conservation that needs to be carried out in the long term, especially to attract tourists. The following are pre and post-test questions that were tested on training participants:

# Choose the correct answer from the following questions!

1. Which one is a sea turtle (*lenuk*)?







b.



d.



- 2. Which is not the way to differentiate sea turtles and turtles?
  - a. Shape of feet
- c. Head

b Habitat

- d. Colour
- 3. These are sea turtles that can be found in Timor-Leste, except...
  - a. Green turtle
- c. Olive ridley
- b. Hawksbill turtle
- d. Kemp ridley
- 4. How old should sea turtle hatchlings be released to the sea after hatching?
  - a. More than 1 month

c. Less than 1 week

b. More than 1 year

d. The sooner, the better

5. These are some benefits of sea turtles, except...

a. Ensure there is fish in the oceans

c. Control coral reef ecosystem productivity

b. Source of carbohydrate

d. Control jellyfish population

6. This is a prerequisite for nest relocation.....

a. Beach abrasion

c. Many predators

e. All is correct

b. Waterlogged

d. Pollution

7. What is the challenge to do nest relocation?

a. Lower hatching rate

c. Need specialised skills

e. All is correct

b. Physical trauma on the eggs d. Need extra resources and time

8. These are some challenges when tending sea turtles in a rehabilitation pond, except...

a. Spread of disease

d. Limited food

b. High operational costs

e. No need for special skills

c. Need good water circulation.

The pre and post-tests showed an increase in the participants' knowledge from 18 out of 29 participants (62%) who took and completed pre and post-tests. While 3 participants did not experience changes and 8 participants experienced a decrease in value. This decrease is thought to be related to difficulties in interpreting the language of the questions and the presence of elderly participants who experienced difficulties in reading. Lastly, 2 participants experienced a significant increase in knowledge by 50%.

#### III. CONCLUSION

Based on the results of the assessment, discussions during the training and post-training as well as video analysis of handling sea turtles by community groups, some information was obtained and it was concluded as follows:

- 1. Com Beach is a nesting beach for at least 3 species of turtles, namely the Olive ridley turtle (Lepidochelys olivacea), Green turtle (Chelonia mydas), and Hawksbill turtle (Eretmochelys imbricate), where the Olive Ridley turtle is the dominant type of turtle found laying eggs on this beach.
- 2. Com Beach is not a big nesting beach. The population is relatively small with only around 25-30 nests per year. It is suspected that the poaching factor has caused the turtle egg population to continue to decline in this area, given the massive hunting for turtle eggs in this area since ancient times (reaching 100% nests). In addition, the data collection factor that is not intensive and the recording that is not good can be another factor for some loss of data. In addition, the coastline before and after Com Beach stretches a quite long beach, but this area is not a target monitoring area so there is a possibility that the area around Com Beach is a nesting area where no information is recorded.
- 3. The lack of knowledge of both the community, government and accompanying NGOs regarding the principles of sea turtle conservation, so that views on turtle conservation and turtle ecotourism are still in the context of keeping, rearing and directly holding turtles are the main things to attract tourists. Sea turtle ecotourism is not only those, other simple things can also be done.
- 4. The hatchability of relocated turtles (hatching success) is reported to be very low (less than 30%). This is of course still far from the recommended value of 70% of the total eggs, so it needs to be increased.
- 5. The unavailability of a series of comprehensive sea turtle monitoring data and the unavailability of reports and publications related to Com's nesting beaches.
- 6. There are no supporting facilities for sea turtle monitoring and data collection.
- 7. Group and group members are still not solid. There are still many gaps between group members, so it is necessary to strengthen the organisation so that the group can run with the same goals.

#### IV. RECOMMENDATIONS

Based on the conclusions above, there are several recommendations for both high and lowpriority scales.

# **High Priority**

- Formation of conservation groups and strengthening of group legality. There is a need for clarification on the legality status of the group, group members, group name, purpose of the group's establishment, to the management structure accompanied by an advisor for the policy, conservation, and organisational aspects.
- 2. Series of training and practicum in an effort to increase community capacity Considering that the group is still relatively new and does not have the same vision and mission as well as unequal insights, a series of training and practices are needed to strengthen the group so that the goals of conservation and improvement of the economic sector can be achieved, including:
  - Organisational management training
  - Training on sea turtle data collection and monitoring techniques
  - Field training on relocation techniques, calculating hatching success and handling baby turtles/ hatchlings after they hatch
  - Training on ecotourism package management
  - Tour guide training
  - Citizen journalism training in an effort to publish ecotourism data and information.
  - Sustainable livelihoods training that can support sea turtle conservation efforts
  - Training on handling stranded and/or bycatch turtles and their rehabilitation efforts
  - Etc.
- 3. Provision of information boards and appeals related to sea turtle protection Especially in beach areas, markets and crowded areas so that more and more people know about turtle protection.
- 4. Develop a long-term Master Plan for Sea Turtle Conservation on Com beach. So that funding support, facilities, and others are more directed and well conceptualised.
- 5. Compilation of a picket list for monitoring sea turtles and ongoing monitoring and data collection by sea turtle monitoring team.
- 6. Hiring consultants for analysing available data and compiling various articles and other publications to introduce Com Beach to the public, both nationally and internationally.
- 7. Provision of Monitoring Facilities (monitoring post, camera, GPS, laptop, printer, handy talky, internet quota, stationery, etc)

# **Less Priority**

- 1. Provision of non-permanent (semi-natural) nest relocation facilities (i.e. relocation is in the beach area which is given a portable fence and made of non-permanent materials).
- 2. Provision of turtle-based educational facilities As a location for socialization, research, and education for the local community, government, school children, students and others, in the forms of dioramas, laptops, projectors, active speakers, posters, projector screens, and educational rooms.
- 3. Conservation cadre from young people and/or community figures who can become champions of sea turtle conservation and can campaign for sea turtle conservation efforts in Timor-Leste, especially Com Beach.



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