

REPORT

THE 1ST MEETING OF CTI-CFF UNIVERSITY PARTNERSHIP

“Building Tangible Program Actions for Capacity Building and Research Collaboration”

Manado, INDONESIA, 28 February – 1 March 2017



A Partnership in Capacity Building, Research Collaboration and Outreach



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MANADO, INDONESIA, 28 FEBRUARY – 1 MARCH 2017

CTI-CFF Regional Secretariat

Cover photo: Participants on the 1st Meeting of CTI-CFF University Partnership at the CTI-CFF Regional Secretariat Headquarter, Manado, Indonesia (Photo: CTI-CFF Regional Secretariat)

Report of the 1st Meeting of CTI-CFF University Partnership

Manado, Indonesia, 28 February – 1 March 2017

CTI-CFF Regional Secretariat

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Foreword

Coral Triangle Initiative for Coral Reefs, Fisheries, and Food Security (CTI-CFF) is a multilateral partnership between six countries in Asia-Pacific region, namely Indonesia, Malaysia, Papua New Guinea, Philippines, the Solomon Islands, and Timor-Leste. Established in 2009, the CTI-CFF was founded by the fact that remarkable marine and coastal biodiversity including coral reefs, seagrass, mangrove ecosystems, and their fishes in the coral triangle area, should be safeguarded and sustainably managed. It is to meet sustainable use of the resources as well as to address crucial natural and anthropogenic pressures including unsustainable fishing activities and the effects of climate change within and between the committed nations.



One of the principles of the CTI-CFF is the management of the resources should be based on solid-science. It is therefore that support of science should be encouraged and embedded in the CTI-CFF framework. One of the approach to get the scientific support to the CTI is through engagement with Universities and/or research institutes. They are pivotal partners, which not only can support the science based management of the marine and coastal resources in the CT region, but also, they can provide sustainable and qualified capacity building programs for greater CT-community including senior governmental officers, local leaders, regional coordinators and program managers, technical staffs, local implementers, students, and local community.

Regional Secretariat efforts to strengthen capacity building and underpin the management of the CT resources with solid-science through initiating MoU with several national (member states) Universities as well as with international University (well-known as CTI-CFF University Partnership) has been recognized by CTI-CFF Commission of Senior Officials in the SOM-12 Port Moresby, 1 - 2 November 2016. It is a landmark effort made by the Regional Secretariat to strengthen the CTI.

This 1st Meeting of the CTI-CFF University Partnership in Manado, 28 February – 1 March 2017 was initiated by CTI-CFF Regional Secretariat with support taken from secretariat program budget for 2017, has been undertaken successfully. This report contains legal formality of this meeting and the proceeding of the meeting. The participants came from Universities of 6 member countries, and other national and international relevant/research institutes or potential partners. The meeting produced tangible outputs, particularly principle and mechanism framework of the partnerships, proposed programs/actions, coordinator for 3-year tenure, and the save-the-date for the next 2nd Meeting of the Partnership.

We thank you so much for all parties that contribute to the successful of this 1st Meeting of the CTI-CFF University Partnership. We do hope that the Partnership and the Coordinator can cordially and closely take those outputs into tangible actions as well as the emerging issues in the member countries such as transboundary pollution and marine debris. Therefore, we could see the enrichment of the existing resource management as to optimally gain the social, economic, and environmental benefits provided by a healthy and rich marine resources.

Manado, Indonesia,
15 March 2017

Prof. Widi A. Pratikto, Ph.D
Executive Director of CTI-CFF Regional Secretariat

Message from the Chair

The 1st Meeting of the CTI-CFF University Partnership can be pronounced as one of the landmark activities within the CTI-CFF framework since it was established in 2009. This partnership is detrimental in generating support from Universities and relevant-research agencies/institutes that may enhance the efforts of CTI-CFF in improving capacity building, research, and outreach programs to enormous community or stakeholders in the CT region.



The challenges in coastal and marine resource management in the CT region are plentiful and dynamic. Consequently, it requires durable science that can identify the core of the problems and brings effective solution for better management. This partnership is essential in addressing all the emerging issues and challenges as these Universities and relevant research agencies/institutes are focused in human capacity building, research, and outreach programs. Mainstreaming synergy and harmony between the science and management is one of the principles of CTI-CFF.

This meeting has effectively provided strategic outputs, which can be used as a foundation for the Partnership to work and grow in the future. The establishment of the framework mechanism has brought about a clear pathway for any individual or grouped universities/research institutes to propose activities/programs/actions to the CTI-CFF framework. Furthermore, this framework has enabled integration of proposals into the national/regional priorities. It is hoped that this mechanism can seamlessly attract more participation from Universities/research institutes as it harmonizes the alignment process to national/regional priorities.

As a member of CTI-CFF Commission of Senior Officials (CSO) and the Chair of this meeting, I would like to acknowledge the Regional Secretariat for all the efforts in initiating the Partnership and in the oversight of this meeting. My appreciation is extended to all my colleagues, the co-Chairs, Professors and scientists from Universities of the CTI member countries, partners from various national and regional agencies/institution for your contribution and constructive ideas during this 2-day meeting at CTI-CFF Regional Secretariat office in Manado, Indonesia.

Putrajaya, Malaysia

15 March 2017

Assoc. Prof. Dr. Ramzah Dambul
Chair

Executive Summary

The 1st meeting of CTI-CFF University Partnership was held in Headquarter of CTI-CFF Regional Secretariat, Manado, Indonesia, on 28 February – 1 March 2017. This meeting aimed at (1) agreeing on CTI-CFF University Partnerships conceptual framework and mechanism, and the election of CTI-University Partnership Coordinator; (2) building-up tangible and collaborative programs and funding support (education, research and outreach) among Universities and research institutes that can be developed for supporting regional capacity buildings, research needed, and outreach programs related to CTI-CFF Regional Plan of Action (RPOA) goals as to achieved qualified CTI-CFF outcomes; (3) identifying possible support and mechanism to strengthening capacity and quality of Regional Secretariat, Technical Working Groups, and National Coordination Committee to undertake their functions.

The 2-day meeting was opened with the remarks from Prof. Widi A. Pratikto, Ph.D, the Executive Director of CTI-CFF Regional Secretariat. The chair and co-chair elected were as follows:

1. **Assoc. Prof. Dr. Ramzah Dambul** : Chair of 1st Meeting of CTI-CFF University Partnership
Deputy Secretary General and Associate Professor
Ministry of Science, Technology and Innovation,
MALAYSIA
2. **Dr. Luky Adrianto** : Co-Chair on the Session CTI-CFF University Partnership, Concept Note and Mechanisms and Co-Chair on the Parallel Session 8A: Potential Collaboration and Support on Capacity Building
Dean of Fisheries and Marine Sciences
Bogor Agricultural University
INDONESIA
3. **Dr. Giuseppe Sapienza** : Co-Chair on the Session Sharing Information and Programs and Co-Chair on the Parallel Session 8B: Discussion on Potential Collaboration and Support on Research
Director of the Office of Research,
Solomon Islands National University
SOLOMON ISLAND
4. **Prof. Dr. Simon Saulei** : Co-Chair on the Session Partnership Statement
Head of Biology Discipline
The University of Papua New Guinea
PAPUA NEW GUINEA
5. **Dr. Naomi Gardiner** : Co-Chair on the Session CTI-CFF Perspective on University Partnership Support
Manager of Postgraduate Studies, College of Science & Engineering
James Cook University
AUSTRALIA
6. **Prof. Dr. Jamaluddin Jompa** : Co-Chair on the Session CTI-CFF Member Countries Statement and Chair on the Parallel Session 8B: Discussion on Potential Collaboration and
Dean of Marine Science and Fisheries of Hasanuddin University, INDONESIA

Support on Research

7. **Prof. Dr. Mazlaan Abd. Ghaffar** : Chair on the Parallel Session
Dean School of Fisheries and Aquaculture Sciences
Universiti Malaysia Terengganu, MALAYSIA : 8A: Potential Collaboration and Support on Capacity Building
8. **Prof. Daniel M. Rosyid, Ph.D.** : Chair on the Parallel Session
Dean of Marine Technology Faculty
Institut Teknologi Sepuluh Nopember, INDONESIA : 8C: Discussion on Potential Collaboration and Support on Outreach Programs
9. **Prof. Dr. Grevo Gerung** : Co-Chair on the Parallel Session
Dean of Fisheries and Marine Faculty
University of Sam Ratulangi, INDONESIA : 8C: Discussion on Potential Collaboration and Support on Outreach Programs

This meeting was organized by Regional Secretariat and attended by 41 participants. The participants came from 5 National Coordinating Committees (NCCs) including of Indonesia, Malaysia, Papua New Guinea, Solomon Islands, Timor-Leste. Universities attending the meeting was from Indonesia (i.e. Bogor Agricultural University (IPB), Institut Teknologi Sepuluh Nopember (ITS), Hasanuddin University (UNHAS), Sam Ratulangi University (UNSRAT), Polytechnic of Marine and Fisheries Bitung, Udayana University), Malaysia (i.e. Universiti Malaysia Terengganu (UMT), Management and Science University), Papua New Guinea (i.e The University of Papua New Guinea (UPNG)), Philippines (i.e. University of the Philippines Diliman), Solomon Islands (i.e. Solomon Islands of University (SINU)), Timor-Leste (i.e. Universidade Nacional Timor Lorosa'e (UNTL)), Australia (i.e. James Cook University (JCU)).

Potential Partners and Potential Collaborators came from Coordinating Ministry for Maritime Affairs of Indonesia, Ministry of Research, Technology and Higher Education of Indonesia, Education and Cultural Attaché of Indonesia Embassy Kuala Lumpur, Education and Cultural Attaché of Indonesia Embassy in Manila, Education and Cultural Attaché of Indonesian Embassy in Dili, Deutsche Gesellschaft für Internationale Zusammenarbeit/GIZ Sulu-Sulawesi Seascape Project, Liquid Robotics, Regenerative Seas, and Wildlife Conservation Society.

The Meeting consisted of twelve (12) sessions, which was six (6) sessions in the first day and six (6) sessions in the second day. The first day meeting concerned to CTI-CFF University Partnership, Concept Note and Mechanisms; Sharing Information and Programs; Partnership Statement and CTI-CFF Perspective on University Partnership Support. Subsequently, in the second day meeting, the discussion concerned to CTI-CFF Member Countries Statement; Potential Collaboration and Support; Pleno Discussion and Recommendation on Capacity Building, Research, and Outreach; Election of the CTI-CFF University Partnership Coordinator and Tentative Date and Venue of the 2nd Meeting of University Partnership.

The followings were the outputs of the Meeting:

1. Conceptual Framework and Mechanism of CTI-CFF University Partnerships

The framework of CTI-CFF University Partnership includes agreed principles and mechanisms. The principles highlighted that the partnership is a non-legally binding, voluntarily, and mutual cooperation among/between all parties involved, which respect each University's own rules and regulations, as well as member country's laws and regulations.

University (individually or in group) will have an equal opportunity to initiate program and activities regulated by the agreed mechanisms. The mechanism framework includes the way of proposal submission, engagement with NCCs, establishing the partnership, coordination and facilitation, monitoring and reporting as illustrated in the following chart. The CTI-CFF University Partnership works towards the agreed programs/action priorities which mainly focus on three mainstream foci: capacity building, research and outreach, as described in the following other sections.

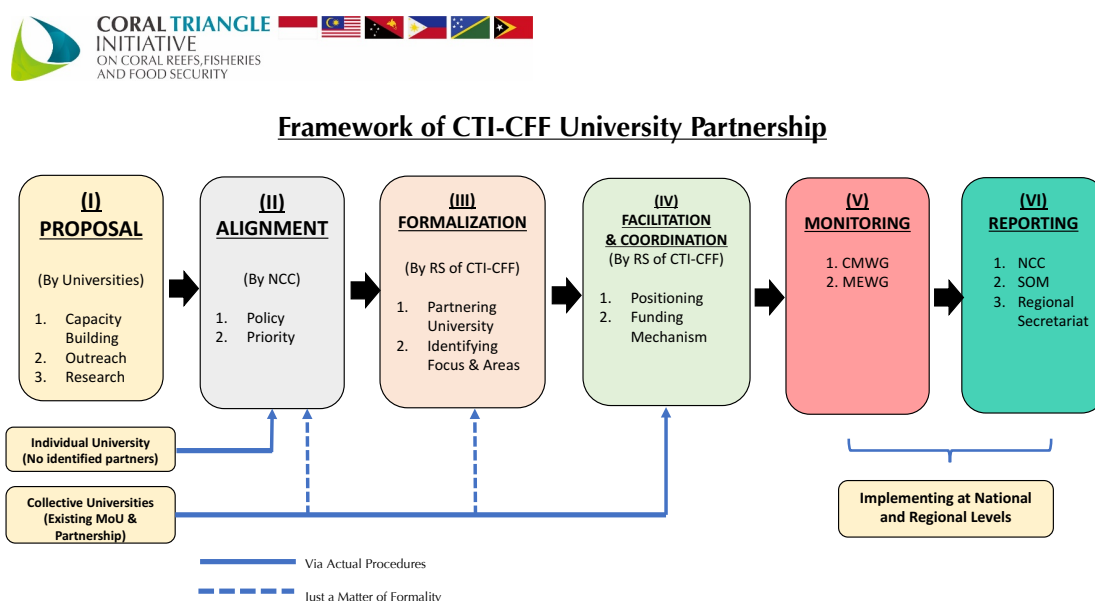


Figure 1. Framework of CTI-CFF University Partnership

2. Tangible Programs/Actions

a. Capacity Building Priority Programs/Actions

Capacity Building in the CT region on the resource management is pivotal approach that determine the success of CTI mission on conservation, sustainable fisheries and food security. Capacity building programs needed covers people-centered and institutional-centered foci, which includes various leadership capacity and management capacity of all people and group of people involved in the initiative, as well as of the Universities themselves.

The proposed programs/actions on capacity building include academic collaboration and regional training. The academic collaboration will be focused on establishment of an international M.Sc. Subject on Coral Triangle Ecosystem Governance, and special assistance program for Timor-Leste in developing fisheries and marine sciences education. While, the regional training program will focus on the public engagement for Coral Triangle, and program and project management for Coral Triangle.

b. Research Priority Programs/Actions

Successful outcomes for management of marine ecosystem requires a solid-science foundation which comes from high-quality and comprehensive researches. Although it is not necessary that all marine resource management have dissolved recommendation from science, the research collaboration is needed to contribute identifying solution for emerging and dynamic challenges faced by the management. The meeting has encouraged that the research collaboration should be heartened through bilateral or multilateral engagement with respects to national law and regulation. The followings are some identified topics or areas considered as priority for the partnerships.

1. Ecosystem Integrity: coral reefs, mangroves, seagrass;
2. Eco-Connectivity (Ecoregion, MPA)
3. Social-Economic Resiliencies
4. Climate-Changed Related Impact to Fisheries
5. Marine Biogeography, Biodiversity
6. Transboundary Pollution (Land & Marine Based):
7. Transboundary Fisheries Management
8. Stranded Marine Mammals
9. Adaptive/Innovative Resource Management

With regards to those identified topics, the meeting proposed that research collaboration of the partnership should focus on the following programs:

1. Collaborative research of the coral reef adaptation and resilience ability to climate change
2. Research on Connectivity of key species (e.g. corals, fish, turtle, etc.) in the CTI region
3. Coastal livelihood and sustaining and regenerating the ecosystem services;
4. Direct and indirect impact of climate change and ocean acidification on small and large scale fisheries in CTI region
5. Study the connectivity and linkages between the ecosystem and the various ecosystem (e.g. mangrove, seagrass) in the CTI region
6. Mapping the ocean pattern (pollution)
7. Legal framework for the commercial fisheries in CTI region and ethical aspect of fisheries
8. Study on the mode of stranded marine mammals and the way to get them out
9. Improve availability and accessibility of data to the management or users (knowledge management)

c. Outreach Priority Actions

Outreach of the partnership is the way to extend the services of the partnerships to particular community or greater stakeholders, which are not limited to NCC, TWGs, and RS; but to scientific community as well as to general public/societies and local communities

The proposed programs/actions priorities on outreach are:

1. Scientific Meeting (Symposium) including participation to others symposium
2. Public awareness in the form of exhibition, campaign, media releases, and marine festival
3. Establishing Scientist Group for CTI-RPOA related themes
4. Improving university-based community service including assisting the local management authority or government in resource management such as ICZM
5. Initiating Regional Center of Excellence of CTI-CFF (a virtual or network based-CoE)
6. Providing a comprehensive mapping for coral reef and fisheries resources (by satellite combined with field observation) which can probably be linked to or enriching CT-Atlas
7. Providing web based lectures or seminars (e.g. webinar, video conference)

3. Election of CT-CFF University Partnership Coordinator and Save the Date for the next the 2nd Meeting of the CTI-CFF University Partnership

The participant of the 1st Meeting of CTI-CFF University Partnership agreed to have a coordinator to boost the imperative efforts. **Prof. Dr. Grevo Gerung** from **Sam Ratulangi University, Indonesia** was elected to be the coordinator of CTI-CFF University Partnership for 2017-2020.

The next 2nd Meeting of CTI-CFF University Partnership was planned to be held in 2018.

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1 Introduction

CTI-CFF highlights its principles to be, inter alia, based on solid sciences, and engage multiple stakeholders. All member countries have committed, through CTI-CFF, to lead effective, highly participatory multi-stakeholder alliances and to achieve a rapid improvement in institutional and human capacity. Through this we sought to attain sustainable management of marine and coastal resources.

Universities as CTI-CFF partners in building capacity for better resource management are important and strategic. The role of Universities in national and regional development is well recognized as they provide a pathway to improve human resource capacity and much of the science and technology innovations needed to foster the development of humanity. Universities have three main foci, namely education, research, and community outreach. Partnerships between CTI-CFF and the University sector provided a means for CTI-CFF to achieve the goal of increased institutional and human capacity. This could be achieved via mutually beneficial programs in education, research and outreach activities. In particular university partners provided CTI-CFF mass social capital for capacity building programs.

The University Partnerships aimed at promoted marine conservation, sustainable fisheries, and food security through educational and professional accredited capacity building, research, and outreach activities within CT6 member countries under the CTI framework (i.e. goals, targets, and regional activities).

CTI-CFF first sought at initiated official partnerships with outstanding, accredited national universities in each of the six member countries that had strengths in relevant CTI-CFF goals. These universities formed a multi-lateral regional network. Secondly, CTI-CFF sought to engage leading global universities in conservation, fisheries, and resource management that could provide targeted research and training programs that enhanced the human and institutional capacities of the national universities, and thereby strengthen the capacity of the regional network.

In addition, CTI-CFF Regional Secretariat has been engaged with 6 CT-member Universities (4 in Indonesia – Bogor Agricultural University (IPB), Institut Teknologi Sepuluh Nopember (ITS), Hasanuddin University (UNHAS), and Sam Ratulangi University (UNSRAT); 1 in Malaysia: Universiti Malaysia Terengganu (UMT) and 1 leading global university: James Cook University (JCU) Australia.

1.1 SOM-Decision Alignment

The Partnerships have been acknowledged by CTI-CFF SOM-12 in Port Moresby, Papua New Guinea on 1-2 November 2016, in Decision No. 14.2.2 and Decision No.14.2.3.

“Initiated and signed MoUs with four of Indonesian universities in October 2016 namely Bogor Agricultural University, Institut Teknologi Sepuluh Nopember, Hasanuddin University and Sam Ratulangi University as for strengthening CTI-CFF to achieve its goals in terms of research supports, education, and outreach program for capacity building and scientific advisory group”. (Decision No. 14.2.2)

“Acknowledged the initiation of CTI-CFF Regional Secretariat for upcoming MOU with University Malaysia Terengganu from Malaysia, James Cook University from Australia; as well as the upcoming potential signing of MOU to extent cooperation arrangements with PEMSEA, University of Queensland from Australia and Solomon Islands National University from Solomon Islands in the frame of the proposed CTI-CFF University Partnership and other potential cooperation arrangements to be established and pursued by the CTI-CFF Regional Secretariat in the near future” . (Decision No. 14.2.3)

1.2 Objectives

The objectives of this meeting were to:

1. Agree on CTI-CFF University Partnerships conceptual framework and mechanism, and the election of CTI-University Partnership Coordinator;
2. Build-up tangible and collaborative programs and funding support (education, research and outreach) among Universities and research institutes that can be developed for supporting regional capacity buildings, research needed, and outreach programs related to RPOA goals as to achieved qualified CTI-CFF outcomes;
3. Identify possible support and mechanism to strengthening capacity and quality of Regional Secretariat, Technical Working Groups, and National Coordination Committee to undertake their functions;

2 Program Agenda and Chairmanship

The 2-day program agenda on 1st Meeting of CTI-CFF University Partnership consisted 12 (twelve) sessions as follows:

2.1 Day 1: 28 February 2017

a. Session I: Opening Session and Election of Chair of the Meeting

Chair : **Widi A. Pratikto** (Executive Director of CTI-CFF Regional Secretariat)
Elected Chair : **Assoc. Prof. Dr. Ramzah Dambul** (Deputy Secretary General/
Associate Professor Ministry of Science, Technology and Innovation,
MALAYSIA)

b. Session II: Adoption Agenda

Chair : **Assoc. Prof. Dr. Ramzah Dambul**

c. Session III: CTI-CFF University Partnership: Concept Note and Mechanisms

Chair : **Assoc. Prof. Dr. Ramzah Dambul**
Co-Chair : **Dr. Luky Adrianto** (Dean of Fisheries and Marine of Agricultural
Bogor University, INDONESIA)

d. Session IV: Sharing Information and Programs

Chair : **Assoc. Prof. Dr. Ramzah Dambul**
Co-Chair : **Dr. Giuseppe Sapienza** (Director of the Office of Research, Solomon
Islands National University, SOLOMON ISLAND)

e. Session V: Partnership Statements

Chair : **Assoc. Prof. Dr. Ramzah Dambul**
Co-Chair : **Prof. Dr. Simon Saulei** (Head of Biology Discipline, The University of Papua New Guinea, PAPUA NEW GUINEA)

f. Session VI: CTI-CFF Perspective on University Partnership Support

Chair : **Assoc. Prof. Dr. Ramzah Dambul**
Co-Chair : **Dr. Naomi Gardiner** (Manager of Postgraduate Studies, College of Science & Engineering, James Cook University, AUSTRALIA)

2.2 Day 2: 1 March 2017

a. Session VII: Statement from CTI-CFF Member States

Chair : **Assoc. Prof. Dr. Ramzah Dambul**
Co-Chair : **Prof. Dr. Jamaluddin Jompa** (Dean of Marine Science and Fisheries of Hasanuddin University, INDONESIA)

b. Session VIII: Discussion on Potential Collaboration and Support (Parallel Session for Matrix Fulfilment)

- ***Parallel Session 8A: Potential Collaboration and Support on Capacity Building***
Chair : **Prof. Dr. Mazlaan Abd. Ghaffar** (Dean School of Fisheries and Aquaculture Sciences, Universiti Malaysia Terengganu, MALAYSIA)
Co-Chair : **Dr. Luky Adrianto**
- ***Parallel Session 8B: Discussion on Potential Collaboration and Support on Research***
Chair : **Prof. Dr. Jamaluddin Jompa**
Co-Chair : **Dr. Giuseppe Sapienza**
- ***Parallel Session 8C: Discussion on Potential Collaboration and Support on Outreach Programs***
Chair : **Prof. Daniel M. Rosyid, Ph.D.** (Dean of Marine Technology Faculty Institut Teknologi Sepuluh Nopember, INDONESIA)
Co-Chair : **Prof. Dr. Grevo Gerung** (Dean of Fisheries and Marine Faculty University of Sam Ratulangi, INDONESIA)

c. Session IX: Pleno Discussion and Recommendation on Capacity Building, Research, and Outreach (Elaboration Matrix Fulfilment)

Chair : **Assoc. Prof. Dr. Ramzah Dambul**

d. Session X: Election of the Coordinator Of CTI-CFF University Partnership

Chair : **Assoc. Prof. Dr. Ramzah Dambul**

e. Session XI: Tentative Date and Venue of the 2nd Meeting of the CTI-CFF University Partnership

Chair : **Assoc. Prof. Dr. Ramzah Dambul**

f. Session XII: Closure Session

Chair : **Assoc. Prof. Dr. Ramzah Dambul**

3 Sessions Proceedings

The CTI-CFF Regional Secretariat hosted the 1st Meeting of CTI-CFF University Partnership, hereinafter referred to as the "Meeting", on 28 February – 1 March 2017 at the CTI-CFF Headquarters in Manado, Indonesia. Delegates from the National Coordinating Committees (NCCs) of CTI-CFF Member States, representatives from Member of CTI-CFF University Partnership and observers attended the Meeting. The full list of participants is attached as in **Annex I**.



Figure 2. Group Photo of the 1st Meeting of CTI-CFF University Partnership

3.1 Session I: Opening Session

a) Welcoming Remarks and Opening

The Executive Director of CTI-CFF Regional Secretariat, Widi A. Pratikto Ph.D. made welcome remarks and delivered a presentation regarding, among others, CTI-CFF in general, university based regional implementation structure along with its interrelated and integrated actions, challenge to CTI-CFF for Research and Development as well as some instances related to oceans and coastal (i.e. acidification, plastic waste, carbon dynamics). The text of welcome remarks and presentation are attached (Annex II and Annex III).

b) Election of the Chair

Facilitated by the Executive Director, Assoc. Prof. Dr. Ramzah Dambul, Deputy Secretary for Science, Technology and Innovation of Ministry of Science, Technology and Innovation of Malaysia was elected as the Chair by consensus. The Chair was assisted by co-chairs from universities of CTI-CFF Member States.

c) Appointment of the Rapporteurs

The Chair appointed the staff from Regional Secretariat as the rapporteurs.

d) Introductory Round of the Participants

The Chair invited participants to make brief self-introduction.

3.2 Session II: Adoption Agenda

a) The Chair invited the Senior Manager for Technical Program, Dr. Muhammad Lukman, to brief explain and highlight regarding agenda, in particular the way of deliberation for each session to the participants with the aim of developing solid engagement and synchronizing programs.

b) The Chair briefed the Meeting that each session would be facilitated by the Co-chair accordingly.

- c) The Meeting reviewed and adopted the provisional agenda of the 1st Meeting of University Partnership (Annex IV).

3.3 Session III: CTI-CFF University Partnership: Concept Note and Mechanisms

- a) The Chair invited Dr. Luky Adrianto, Dean of Fisheries and Marine of Agricultural Bogor University, to become as the Co-chair.
- b) The Co-chair invited Senior Manager for Technical Program of CT-CFF Regional Secretariat to clarify the Terms of Reference (ToR) along with Concept Note and Mechanisms of the CTI-CFF University Partnership. The text of ToR, Concept Note and Mechanism are attached (Annex V).
- c) A number of exchange of views occurred during the session, in particular regarding the way of coordination of CTI-CFF Partnership. There was a need to make a clear picture on how to streamline the ways and means in implementing the function of CTI-CFF University Partnership.
- d) Representative from GIZ, Ms. Mareska Mantik, Advisor of SSSP, informed to the meeting that the commitment of GIZ to allocate possible funds for the works of CTI-CFF University Partnership. She invited to the University Partnership to submit proposal to the GIZ for further possible funding. She also reiterated commitment of GIZ to involve with Regional Secretariat in implementing the Sulu Sulawesi Seascape Project to discuss programs and cooperation afterward under the framework of CTI-CFF University Partnership. In this regard, the Meeting highly appreciated the offer and commitment made by GIZ.
- e) After deliberation during the session, the session come up with the following conclusions:
 - 1) Agreed that each University will have equal opportunity to initiate regional partnership with coordination with CTI-CFF Regional Secretariat for further arrangements.
 - 2) Agreed to have solid coordination between Regional Secretariat, National Coordinating Committee (NCC) and CTI-CFF University Partnership in consolidating the ways and means and execute the programs.
 - 3) Agreed that there was a need to provide source for funding the activities under the framework of CTI-CFF University Partnership, including on how and where the university partnership was going to get the fund. In this context, the CTI-CFF Regional Secretariat would have a role to facilitate the process.
 - 4) Bearing in mind that the 12th CTI-CFF Senior Officials' Meeting (SOM-12) endorsed the Regional Secretariat to do all efforts in strengthening CTI-CFF, the Meeting agreed to move forward of the CTI-CFF University Partnership at operational and implementing level rather that policy level.
 - 5) Agreed to adopt in principal the framework of CTI-CFF University Partnership as attached (Annex VI).

3.4 Session IV: Sharing Information and Programs

- a) Under this agenda item, the Chair invited Dr. Giuseppe Sapienza, Director of the Office of Research, Solomon Islands National University to become as Co-chair.
- b) The Co-chair invited one of representative from Member of University Partnership that have MoU with CTI-CFF Regional Secretariat to deliver a presentation on any Capacity Building Program (incl. Graduate, Post-Graduate Program, Short-course, Trainings), research priorities themes and possible to align with the CTI-CFF goals.

c) The following was the order of presentation:

- 1) Bogor Agricultural University (IPB)
- 2) Sepuluh Nopember Institute of Technology (ITS)
- 3) Hasanuddin University (UNHAS)
- 4) Sam Ratulangi University (UNSRAT),
- 5) Universiti Malaysia Trengganu (UMT)
- 6) James Cook University (JCU)

d) The meeting took note and acknowledged substantive matters from the presentations as well as encouraged participants to establish close communication and coordination in developing fruitful engagement and potential collaboration under the framework of CTI-CFF University Partnership. The presentations are attached (Annex VII).

3.5 Session V: Partnership Statement

a) The Chair invited Dr. Simon Saulei, Head of Biology Discipline for the University of Papua New Guinea to become as the Co-chair.

b) The Co-chair invited observers (i.e. potential universities, institutions, NGOs) to deliver a five-minutes statement and / or presentation with a view of sharing their insights regarding point of views of CTI-CFF University Partnership and possible supports to be extended accordingly.

c) The following was the order of statement:

1. Coordinating Ministry for Maritime Affairs of Indonesia
2. Ministry of Research, Technology and Higher education of Indonesia
3. Education and Cultural Attache, Embassy of Indonesia to Malaysia
4. Education and Cultural Attache, Embassy of Indonesia to Philippines
5. Education and Cultural Attache, Embassy of Indonesia to Timor-Leste
6. Polytechnic of Marine and Fisheries of Bitung – North Sulawesi, Indonesia
7. Management and Sciences University Shah Alam, Malaysia
8. University of Papua New Guinea
9. University Diliman of Philippines
10. Solomon Islands National University
11. Universidade Nacional Timor Lorosa'e
12. Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
13. Liquid Robotics Asia Pacific, United States

d) The meeting took note and acknowledged statements and/or presentations delivered by observers as productive insights to enrich the overall framework of CTI-CFF University Partnership. The statements and presentations are attached in (Annex VIII).

3.6 Session VI: CTI-CFF Perspective on University Partnership Support

a) The Chair invited Dr. Naomi Gardiner, Manager of Postgraduate Studies, College of Science & Engineering from James Cook University to become as the Co-chair.

b) The Co-chair invited Senior Manager for Technical Program, Dr. Muhammad Lukman, to briefly explain to the participants regarding the supports required from the CTI-CFF University Partnership to contribute RPOA implementation. In addition, Perspective on University Partnership: Challenges, Opportunities, Policies Consideration on Important Issues are also highlighted.

- c) He explained three (3) proposed collaborative actions namely Capacity Building, Research Collaboration and Outreach Collaboration, including the way of how to proceed the mechanisms under each of aspect. These foci of discussion could become main reference for cooperative arrangement and engagement under the CTI-CFF University Partnership. He also explained that the meeting would be divided into three (3) groups to discuss on each of proposed actions accordingly. The proposed programs are attached (Annex IX).
- d) The meeting acknowledged three proposed programs and would put commitment to exhaust collective efforts during the Meeting in identifying challenges and proposed program into tangible plan of action.

3.7 Session VII: Statement from CTI-CFF Member States

- a) The Chair invited Prof. Dr. Jamaluddin Jompa, Dean of Marine Science and Fisheries of Hasanuddin University, to become as the Co-chair.
- b) The Co-chair invited representative from National Coordinating Committee (NCC) of CTI-CFF Member States to deliver a statement.
- c) The following was the order of statement:
 - 1) NCC Indonesia
 - 2) NCC Malaysia
 - 3) NCC Papua New Guinea
 - 4) NCC Solomon Islands
 - 5) NCC Timor-Leste
- d) The Meeting appreciated and acknowledged the statements made by the representative from the NCC of CTI-CFF Member States. The Meeting also took note encouraging words and supporting statements in order to move forward of the CTI-CFF University Partnership towards the implementation of Regional Plan of Action (RPOA) at the regional level and National Plan of Action (NPOA) at national level. The texts of statements are attached (Annex X).

3.8 Session VIII: Discussion on Potential Collaboration and Support (Parallel Session for Matrix Fulfilment)

- a) The Chair informed the meeting that the meeting would be divided into three (3) groups of parallel meetings along with designated Chair, Co-chair and participants accordingly. The following were arrangements/groups along with the Chair and Co-chair:
 - i. Potential Collaboration and Support on Capacity Building (Group A)
 - Chair** : Prof. Dr. Mazlan Abd. Ghaffar (Universiti Malaysia Trengganu, UMT, Malaysia)
 - Co-chair** : Dr. Ir. Luky Adrianto, M.Sc (Bogor Agricultural University, IPB, Indonesia)
 - ii. Discussion on Potential Collaboration and Support on Research (Group B)
 - Chair** : Prof. Jamaluddin Jompa (Hassanudin University, UNHAS, Indonesia)
 - Co-chair** : Dr. Giuseppe Sapienza (Solomon Islands National University, SINU, Solomon Islands)
 - iii. Discussion on Potential Collaboration and Support on Outreach Programs (Group C)
 - Chair** : Prof. Daniel M. Rosyid, Ph.D. (Sepuluh Nopember Institute of Technology, ITS, Indonesia)
 - Co-chair** : Prof. Grevo Gerung (Sam Ratulangi University, UNSRAT, Indonesia)
- b) The meeting acknowledged on the arrangements and proceeded to respective group accordingly.

3.9 Session IX: Pleno Discussion and Recommendation on Capacity Building, Research, and Outreach (Elaboration Matrix Fulfilment)

- a) The Chair invited respective Chair from each group to present the results of discussions and deliberations along with the outcomes to the Meeting.
- b) Each of Chair delivered a presentation to the Meeting followed by exchange of views among the participants.
- c) The Meeting acknowledged and took note the outcomes from each of group with some exchange of views for further follow up and consolidation.
- d) After deliberation during the parallel meetings on proposed collaboration, the session came up with the following conclusions:
 - i. Acknowledged and adopted three (3) proposed actions namely Capacity Building, Research and Outreach to be main foci of CTI-CFF University Partnership. The proposed actions are attached (Annex XI).
 - ii. Acknowledged the important role of CTI-CFF Centre of Excellence (CoE) with a view of collective efforts to support of RPOA through pragmatic approaches on research, capacity building and outreach.
 - iii. Agreed to formulate the criteria along with the timeline of the three (3) proposed actions (i.e. capacity building, research, and outreach) in order to implement in tangible manners.
 - iv. Agreed to have set of guidelines of CTI-CFF CoE along with identification the needs of CoE and potential programs/activities.
 - v. Agreed to have a Coordinator to lead CTI-CFF University Partnership and tasked him/her to set up necessary follow up as agreed during the 1st Meeting of CTI-CFF University Partnership.
 - vi. Tasked the CTI-CFF Regional Secretariat to seek funding opportunities and facilitate possible join collaborative efforts to support programs under the framework of CTI-CFF University Partnership.

3.10 Session X: Election of the Coordinator of CTI-CFF University Partnership

- a) The Meeting elected Prof. Dr. Grevo Gerung from Sam Ratulangi University (UNSRAT) of Indonesia as the Coordinator of CTI-CFF University Partnership.
- b) The tenure of Coordinator of CTI-CFF University Partnership would be from 2017 to 2020.
- c) The elected Coordinator should establish close communication and coordination with the CTI-CFF Regional Secretariat and National Coordinating Committee (NCC) of CTI-CFF Member States.

3.11 Session XI: Tentative Date and Venue of the 2nd Meeting of University Partnership

The Meeting decided that the 2nd Meeting of University Partnership to be held in 2018. The exact date and venue will be communicated in due course.

3.12 Session XII: Closure Session

The participating delegations conveyed their deep gratitude and appreciation to the Meeting for all efforts extended during each of session and remained hopeful that the CTI-CFF University Partnership will move forward towards development of capacity building, research and outreach under the CTI-CFF framework.

The Chairman expressed his profound thanks and appreciation to all delegates for the productive discussions and commended the constructive outcome of the deliberations.

The Executive Director wished to the Meeting that the new partnership in the frameworks of university may bring benefits to support and expedite the RPOA implementation.

4 Tangible Programs/Actions

As mentioned at the result of Session IX (nine), there are 3 (three) adopted programs on the capacity building, research and outreach as follows.

4.1 Capacity Building Priority Programs/Actions

Capacity Building in the CT region on the resource management is pivotal approach that determine the success of CTI mission on conservation, sustainable fisheries and food security. Capacity building programs needed covers people-centered and institutional-centered foci, which includes various leadership capacity and management capacity of all people and group of people involved in the initiative, as well as of the Universities themselves.

The proposed programs/actions on capacity building include academic collaboration and regional training. The academic collaboration will be focused on establishment of an international M.Sc. Subject on Coral Triangle Ecosystem Governance, and special assistance program for Timor-Leste in developing fisheries and marine sciences education. While, the regional training program will focus on the public engagement for Coral Triangle, and program and project management for Coral Triangle.



Figure 3. The Group A, tasked to discuss the Potential Collaboration and Support on Capacity Building

Table 1. The Adopted Proposed Programs/ Actions on Capacity Building

Focus of Programs/Actions	Challenges	Proposed Programs/Actions	Institution involved
Capacity Building Based on People Centered	Knowledge Capacity	International M.Sc. Subject on Coral Triangle Ecosystem Governance	Host University (UNSRAT or UMT) with supported by CT University Consortium (IPB, JCU, ITS, UNHAS, UNTL, UPNG, University of Solomon Islands, etc.).
Capacity Based on Institution Centered	Curriculum Capacity	Special Assistance Program for Timor-Leste in Developing Fisheries and Marine Sciences Education	All of CT University members
	Managerial Capacity	Regional Training Program on Public Engagement for Coral Triangle	Led by CSOs within the CT Partners and supported by the CT-University Consortium.

4.2 Research Priority Programs/ Actions

Successful outcomes for management of marine ecosystem requires a solid-science foundation which comes from high-quality and comprehensive researches. Although it is not necessary that all marine resource management have dissolved recommendation from science, the research collaboration is needed to contribute identifying solution for emerging and dynamic challenges faced by the management. The meeting has encouraged that the research collaboration should be heartened through bilateral or multilateral engagement with respects to national law and regulation. The followings are some identified topics or areas considered as priority for the partnerships.

1. Ecosystem Integrity: coral reefs, mangroves, seagrass;
2. Eco-Connectivity (Ecoregion, MPA)
3. Social-Economic Resiliencies
4. Climate-Changed Related Impact to Fisheries
5. Marine Biogeography, Biodiversity
6. Transboundary Pollution (Land & Marine Based):
7. Transboundary Fisheries Management
8. Stranded Marine Mammals
9. Adaptive/Innovative Resource Management

Table 2. The Adopted Proposed Programs/ Actions on Research Collaboration

Focus of Programs/ Actions	Challenges	Proposed Programs/ Actions	Institution involved
Research Related to CTI-CFF RPOA Goals	Ecosystem Integrity: coral reefs, mangroves, seagrass: a. Serious impact of climate change on coral reef existence	Collaborative research of the coral reef adaptation and resilience ability to climate change	SINU, UMT, UPNG, IPB, ITS, UNHAS, UNSRAT
	Eco-Connectivity (Ecoregion, MPA)	Research on Connectivity of key species (e.g. corals, fish, turtle, etc.) in the CTI region	SINU, UMT, UPNG, IPB, ITS, UNHAS, UNSRAT
	Social-Economic Resiliencies	How the coastal community will continue develop their livelihood and sustaining and regenerating the ecosystem	SINU, UMT, UPNG, IPB, ITS, UNHAS, UNSRAT
	Climate-Changed Related Impact to Fisheries	Direct and indirect impact of climate change and ocean acidification on small and large scale fisheries in CTI region	SINU, UMT, UPNG, IPB, ITS, UNHAS, UNSRAT
	Marine biogeography, biodiversity	Study the connectivity and linkages between the ecosystem and the various ecosystem (e.g. mangrove, seagrass) in the CTI region	TBD
Research Related to Cross-Cutting/Emerging Challenges	Trans-boundary Pollution (Land and Marine Based): • Plastic Debris • Nutrient Pollution • Oil Spills	Mapping the ocean pattern (pollution)	TBD
	Trans-boundary Fisheries Management: •Tuna and LRFFT (Life reef fish food trade), Larvae •Unsustainable Fishing Practices •Combating IUUF	Legal framework for the commercial fisheries in CTI region and ethical aspect of fisheries	SINU, UMT, UPNG, IPB, ITS, UNHAS, UNSRAT

Focus of Programs/ Actions	Challenges	Proposed Programs/ Actions	Institution involved
	Practices		
	Stranded Marine Mammals	Why the marine mammals get stranded in CTI region	SINU, UMT, UPNG, IPB, ITS, UNHAS, UNSRAT
	Adaptive/Innovative Resource Management	How big data can be incorporated into marine resource management in CTI region	SINU, UMT, UPNG, IPB, ITS, UNHAS, UNSRAT

4.3 Outreach Priority Programs/ Actions

Outreach of the partnership is the way to extend the services of the partnerships to particular community or greater stakeholders, which are not limited to NCC, TWGs, and RS; but to scientific community as well as to general public/societies and local communities

The proposed programs/actions priorities on outreach are:

1. Scientific Meeting (Symposium) including participation to others symposium
2. Public awareness in the form of exhibition, campaign, media releases, and marine festival
3. Establishing Scientist Group for CTI-RPOA related themes
4. Improving university-based community service including assisting the local management authority or government in resource management such as ICZM
5. Initiating Regional Center of Excellence of CTI-CFF (a virtual or network based-CoE)
6. Providing a comprehensive mapping for coral reef and fisheries resources (by satellite combined with field observation) which can probably be linked to or enriching CT-Atlas
7. Providing web based lectures or seminars (e.g. webinar, video conference)



Figure 4. The Group C, tasked to discuss the Potential Collaboration and Support on Outreach Programs

Table 3. The Adopted Proposed Programs/ Actions on Outreach Programs

Challenges	Proposed Programs/ Actions	Institution involved
CTI-CFF Scientific Meeting, Symposium, Conferences, Publication, Exhibition	<ul style="list-style-type: none"> • Scientific Meeting (Symposium) • Public awareness • Participate others symposium 	University, NGO, Government
CTI-CFF Scientific Advisory Groups on CTI-CFF RPOA-related Themes	Scientist Group	TBD
Ecosystem/Social-Economic Resiliencies	<ul style="list-style-type: none"> • Marine Festival • Community service • Exhibition • Community base management (ICZM) 	University, Elementary, Junior and Senior High School, NGO, Government
Center of Excellence (CoE)	Coral Triangle Center of Excellence	CT University Partnership
Pilot Projects and Public Campaign	<ul style="list-style-type: none"> • Coral reef mapping by satellite combined with field observation • Fisheries resources mapping by satellite combined with field observation 	TBD
Internet-based Lecture	Web base lecture or seminar (Tele-conference)	Universities

5 CTI-CFF University Partnership: Principle and Mechanism Framework

The framework of CTI-CFF University Partnership includes agreed principles and mechanisms. The principles highlighted that the partnership is a non-legally binding, voluntarily, and mutual cooperation among/between all parties involved, which respect each University's own rules and regulations, as well as member country's laws and regulations.

University (individually or in group) will have an equal opportunity to initiate program and activities regulated by the agreed mechanisms. The mechanism framework includes the way of proposal submission, engagement with NCCs, establishing the partnership, coordination and facilitation, monitoring and reporting as illustrated in the following chart. The CTI-CFF University Partnership works towards the agreed programs/action priorities which mainly focus on three mainstream foci: capacity building, research and outreach, as described in the following other sections.

The CTI-CFF University Partnership shall closely work with the following adopted framework.

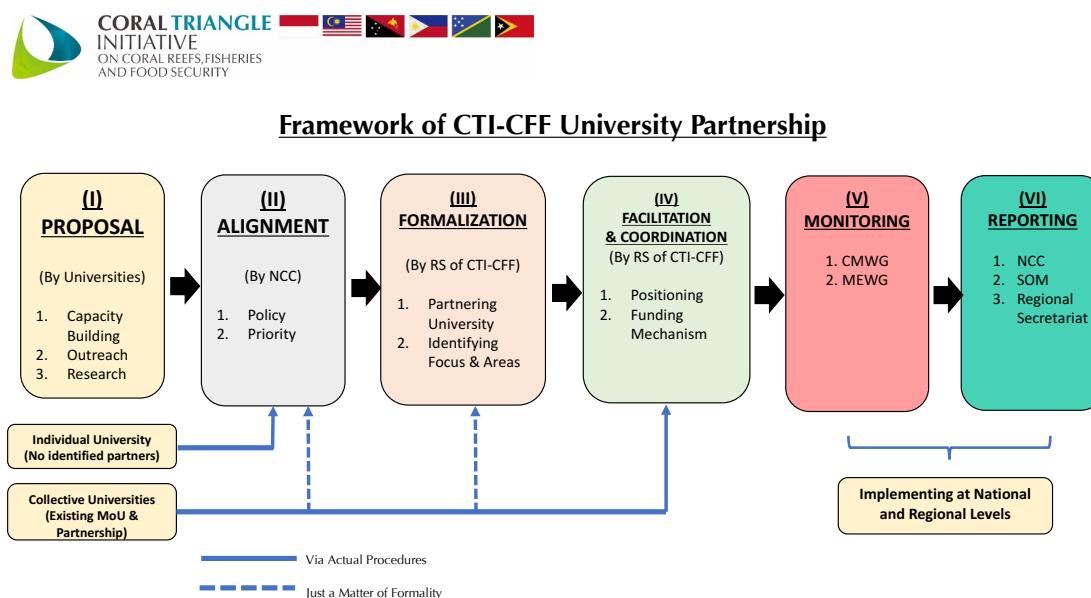


Figure 5. Framework of CTI-CFF University Partnership

The framework has numbers of mechanism that need to be followed.

1. Proposal Submission
 - a. Submission will be done either by: (i) an individual university to the respective NCC; or (ii) by a collective university partnership directly to the Regional Secretariat of CTI-CFF (and to notify NCC)
 - b. The area of collaboration can consist either one or combination of these aspects (capacity building, research and outreach)
2. Engagement with NCCs
 - a. Individual universities submit proposals to NCC to reviews the proposal's alignment with national policies/priorities
 - b. Any proposals based on existing collaboration should be directly submitted to Regional Secretariat of CTI-CFF, and notify NCC for record.
3. Establishing the Partnership
 - a. Regional Secretariat will identify the suitable partnering universities and strategic focus areas for collaboration
 - b. Regional Secretariat should formalize the partnership based on the proposal submitted by the individual university or the collective universities
4. Coordination and Facilitation by Regional Secretariat
 - a. Positioning
 - 1) Regional Secretariat will position the programs under this partnership to be CTI branded and then implemented under the existing CTI-CFF Framework.
 - 2) Regional Secretariat will ensure the objectives of this partnership are in line with RPOA and the spirit of CTI
 - b. Funding Mechanism
 1. Regional Secretariat will facilitate the programs under this partnership and seek funding (i.e. needed) via this mechanism:

- Consolidating funds brought by individual universities to become a shared funding pool
- Budget support from CTI-CFF partners (e.g. GIZ, USAID, etc.) will be sourced using CTI brand
- New resources would be sought from the government entities agencies (e.g. ministries, agencies, etc.) using CTI as the multilateral inter-government platform
- Facilitation fund provided directly from the Regional Secretariat annual budget

5. Monitoring

1. CMWG of CTI-CFF will monitor the activities of these projects/ programs to be in line with CTI-CFF Spirit.
2. A specific team from Regional Secretariat or MEWG will ensure the milestone of the projects/programs undertaken are achieved accordingly

6. Reporting

Reporting should be done at 2 levels (at national and regional), which include:

1. NCC and Regional Secretariat CTI-CFF
2. CMWG and MEWG
3. SOM



Figure 6. The enthusiasm of the participants, the Chair and the Co-Chairs on 1st Meeting of CTI-CFF University Partnership

To coordinate the implementation of the framework and the tangible proposed activities, the meeting adopted **Prof. Dr. Grevo Gerung** (blue shirt Batik in the Fig. 6) from Sam Ratulangi University, INDONESIA as CTI-CFF University Partnership Coordinator during 2017-2020. In addition, the meeting also agreed to have the 2nd meeting of CTI-CFF University Partnership in 2018.

List of Annexes

(All attachments in this report is available on <http://bit.ly/2INikYF>)

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 - b. Term of Reference CTI-CFF University Partnership Meeting of Reference CTI-CFF University Partnership Meeting
- Annex VI :
 - a. Adopted CTI-CFF University Partnership Conceptual Framework
 - b. Adopted Framework of CTI-CFF University Partnership
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- Annex VIII :
 - a. Presentation from Coordinating Ministry for Maritime Affairs of Indonesia
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 - c. Statement from Education and Cultural Attache, Embassy of Indonesia to Malaysia
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 - f. Statement from Polytechnic of Marine and Fisheries of Bitung – North Sulawesi, Indonesia
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 - a. Presentation from NCC Indonesia
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 - d. Statement from NCC Solomon Islands
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- Annex XI :
 - a. Adopted the Proposed Programs on Capacity Building, Research and Outreach
 - b. Presentation on Capacity Building Proposed Program

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