

REPORT

THE CTI-CFF UNIVERSITY PARTNERSHIP WORKSHOP
ON DEVELOPMENT PROGRAM

Manado, INDONESIA, 7-8 August 2017



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ON PROGRAM DEVELOPMENT

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CORAL TRIANGLE
INITIATIVE
ON CORAL REEFS, FISHERIES
AND FOOD SECURITY



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CTI-CFF Regional Secretariat

Cover photo: Participants on the CTI-CFF University Partnership Workshop on Program Development at the CTI-CFF Regional Secretariat Headquarter, Manado, Indonesia (Photo: CTI-CFF Regional Secretariat)

Report of the CTI-CFF University Partnership Workshop on Program Development

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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 fishers 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 un-sustainable 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 approaches 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.

The Regional Secretariat is to provide support to National Coordinating Committee (NCC) of all member countries on emerging opportunities and priorities in addressing the achievement of the CTI-CFF RPOA implementation goals and targets. Emerging opportunities and priorities include those of efforts related to capacity building and underpin the management of the CT resources with solid-science. It is therefore, the Secretariat has initiated partnerships with several national (member states) and international Universities (well-then called as CTI-CFF University Partnership) as potential partners and opportunities in addressing the challenges of capacity building and science-for-management. This initiative 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.

The CTI-CFF University Partnership Workshop on Program Development, in Manado Indonesia, 7 – 8 August 2017, is a follow-up activity of the 1st Meeting of the CTI-CFF University Partnership in Manado, 28 February – 1 March 2017. This activity is specifically intended to develop commitment on program actions for the year of 2017 and 2018. The program developed in this workshop is expected to bring benefits to all the NCCs in addressing the CTI-goals. This report contains legal formality of this meeting, the proceeding of the meeting, the agreed activities including indicative budget, on the aspects of capacity building, research, and community outreach. The participants came from Universities of 6 member countries, other national and international relevant/research institutes or potential partners, and the NCCs.

I congratulate and thank you so much for all parties that contribute to the successful of this CTI-CFF University Partnership Workshop on Program Development. We do hope that this Partnership can move forward with those outputs, so that we can see the progress of the Partnership in the near future.

Manado, Indonesia
21 August 2017

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

Message from the Coordinator



CTI CFF University Partnership Workshop on Program Development is a continuation of the results of CTI CFF University Partnership 1st Meeting. A common pride when in this workshop, the members of this partnership increased with several universities engaged.

As a centre of science, university and other research institute realized that it takes an integrated science to manage our coastal and marine resources. Although each university and research institute have sufficient expertise to each specification but for human interest then science is universal.

Therefore, CTI-CFF university partnership was formed to integrate science in conservation of marine biodiversity and ecosystem while continuing to conduct exploration and exploitation for the benefit of fisheries, pharmacy and food security is ultimately for the benefit of human welfare.

The marine biodiversity and ecosystem in the Coral Triangle region is a blessing for human, but we must continue to be maintained by responsible management. The University must strive to use of technology while generating new technologies in exploration, exploitation and conservation of marine biodiversity and ecosystem. Universities should be able to cooperate with the Government which has power in law, political and fiscal policy.

As the centre of science, I believe university partnership can do a lot with science. This workshop is an important step to begin our strategic action to achieve our goals "Policy base on science" with proposed programs on Capacity Building, Research and Outreach.

I should therefore wish to thank all the participants, as in the partners, who have contributed with commitment and willingness to share the knowledge and experienced so this workshop has done successfully. I hope this partnership will work in harmony for human welfare

Manado, Indonesia
21 August 2017

Prof. Dr. Ir. Grevo S. Gerung, M.Sc
CTI-CFF University Partnership Coordinator

Message from the Chair



The CTI-CFF University Partnership Workshop on Program Development, in Manado Indonesia, 7 – 8 August 2017, is a follow-up activity of the 1st Meeting of the CTI-CFF University Partnership in Manado, 28 February – 1 March 2017. 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 important for the CTI-CFF since University has long been recognized by the CTI-CFF community since it was initiated as potential stakeholder for the CTI-CFF. University is not only having its strength in capacity building and research, but also their capacity in community outreach including their infrastructure and facilities, which can be potential partners for the NCCs in achieving the CTI goals and targets.

The challenges in coastal and marine resource management in the CT region are plentiful and dynamic. Consequently, it requires robust scientific knowledge 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 workshop has effectively provided strategic exercises for the CTI in developing program and activities. This workshop has produced tangible priority activities and coordinative efforts among the Universities, and between the Universities and the NCCs. The workshop has been going through very well with lots of discussion in details on each activity proposed. As explained further in this Report, proposed activities in the year of 2017 and 2018 include activities in each mainstream of the partnership i.e. capacity building, research, and community outreach. In general, the workshop has successfully prioritized seven (7) activities with their indicative budget allocation. Those activities are complemented with detail components, which indicate strategic and clear approaches to get the activity undertaken. Exceptionally, in the research mainstream since research collaboration for regional purposes needs more engagement and communication between scientist among the Universities engaged and other potential Universities and research institutes, the activity proposed limited to how to set a small group or Task Force in preparing concept notes for CTI regional research initiative which will be then used as reference for the CTI-CFF in developing research proposal and activities relevant to it. Lastly, one of the output of this Workshop is the commitment to establish “CTI-CFF Scientific Society”, which is the forum of any scientist, as individual, who has interest in science and management related to the CT resource management.

As a member of CTI-CFF Commission of Senior Officials (CSO) and the Chair of this Workshop, I would like to acknowledge the Regional Secretariat for all the efforts in initiating the Partnership and in the coordination 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 workshop at CTI-CFF Regional Secretariat office in Manado, Indonesia.

Putrajaya, Malaysia

21 August 2017

Assoc. Prof. Dr. Ramzah Dambul
Chair

Executive Summary

The CTI-CFF University Partnership on Program Development was held in Headquarter of CTI-CFF Regional Secretariat, Manado, Indonesia, on 7 – 8 August 2017. This meeting aimed at (1) developing collaborative program actions for the year 2017 and 2018 as the continuation of the results of the 1st CTI-CFF University Partnership 28 February – 1 March 2017; (2) identifying mechanism in developing a join-program and proposals on capacity building, research and outreach as well as securing financial supports as.

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

- 1. Assoc. Prof. Dr. Ramzah Dambul** : Chair of CTI-CFF University Partnership Workshop on Program Development
Deputy Secretary General and Associate Professor Ministry of Science, Technology and Innovation, MALAYSIA
- 2. Dr. Luky Adrianto** : Co-Chair on the Session Program Priority of CTI-CFF University Partnership 2017-2018 on Capacity Building
Dean of Fisheries and Marine Sciences Bogor Agricultural University INDONESIA
- 3. Prof. Dr. Peter John Mumby** : Co-Chair on the Session Program Priority of CTI-CFF University Partnership 2017-2018 on Research
ARC Laureate Professorial Fellow University of Queensland AUSTRALIA
- 4. Prof. Dr. Marcus Lane** : Co-Chair on the Session Program Priority of CTI-CFF University Partnership 2017-2018 on Outreach
Dean of Science and Engineering James Cook University AUSTRALIA

This workshop was organized by Regional Secretariat and attended by thirty-eight (38) participants. The participants came from six (6) National Coordinating Committees (NCCs) including of Indonesia, Malaysia, Papua New Guinea, Philippines, Solomon Islands and 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, Padjadjaran University), Malaysia (i.e. Universiti Malaysia Terengganu (UMT), Universiti Malaysia Sabah Borneo Marine Research), 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), Univercidade Oriental de Timor-Leste (UNITAL)), Australia (i.e. James Cook University (JCU), University of Queensland (UQ)).

Potential Partners and Potential Collaborators came from Education and Cultural Attache´ of Indonesian Embassy in Dili, Asian Development Bank and Deutsche Gesellschaft für Internationale Zusammenarbeit/GIZ Sulu-Sulawesi Seascape Project.

The Workshop consisted of nine (9) sessions, which was five (5) sessions in the first day and four (4) sessions in the second day. The sessions at the first day include the introduction to CTI-CFF University Partnership Workshop on Program Development 2017-2018, Program Priority of CTI-CFF University Partnership 2017-2018 on Capacity Building, and Program Priority of CTI-CFF University Partnership 2017-2018 on Research. At the second day, the sessions cover the discussion on Program Priority of CTI-CFF University Partnership 2017-2018 for the community outreach, Integration on Program Priority of CTI-CFF University Partnership 2017-2018 and MoU Signing between CTI-CFF and UNTL as well as between CTI-CFF and UPNG.

The outputs of the workshop are the followings:

1. Program Priority of CTI-CFF University Partnership 2017-2018 on Capacity Building

- i. Special Assistance Program (SAP) for Timor-Leste in Developing Fisheries and Marine Sciences Education
- ii. International M.Sc. Subject on Coral Triangle Ecosystem Governance
- iii. Regional Training Program on Climate Change

2. Program Priority of CTI-CFF University Partnership 2017-2018 on Research

The CTI-CFF research proposal should elaborate the following topics:

- i. Collaborative research of the coral reef adaptation and resilience ability to climate change
- ii. Research on Connectivity of key species (e.g. corals, fish, turtle, etc.) in the CTI region
- iii. Coastal livelihood and sustaining and regenerating the ecosystem services
- iv. Improving university-based community service including assisting the local management authority or government in resource management such as ICZM
- v. Initiating Regional Center of Excellence of CTI-CFF (a virtual or network based-CoE)
- vi. Mapping the ocean pattern (pollution)
- vii. Legal framework for the commercial fisheries in CTI region and ethical aspect of fisheries
- viii. Study on the mode of stranded marine mammals and the way to get them out
- ix. Improve availability and accessibility of data to the management or users

3. Program Priority of CTI-CFF University Partnership 2017-2018 on Outreach

- i. Public awareness in the form of exhibition, campaign, media releases, and marine festival
- ii. Scientific Meeting (Symposium) including participation to others symposium
- iii. CTI-CFF Science-Business Forum

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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 CTI-CFF University 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.

The CTI-CFF University Partnership Workshop on Program Development, in Manado Indonesia, 7 – 8 August 2017, is a follow-up activity of the 1st Meeting of the CTI-CFF University Partnership in Manado, 28 February – 1 March 2017. The 1st CTI-CFF University Partnership Meeting has produced significant and strategic outputs include setting-up the framework of the CTI-CFF University Partnerships, the election of the coordinator of the Partnership for the period of 2017 - 2020, and the proposed program and actions on three mainstreams of the University Partnership i.e. capacity building, research and community outreach. The proposed programs/actions are then becoming a foundation for this Workshop.

This workshop was organized by Regional Secretariat using the Secretariat Budget for Program Division. The workshop was attended by thirty-eight (38) participants. The participants came from six (6) National Coordinating Committees (NCCs) including of Indonesia, Malaysia, Papua New Guinea, Philippines, Solomon Islands and 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, Padjadjaran University), Malaysia (i.e. Universiti Malaysia Terengganu (UMT), Universiti Malaysia Sabah Borneo Marine Research), 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), Univercidade Oriental de Timor-Leste (UNITAL)), Australia (i.e. James Cook University (JCU), University of Queensland (UQ)). Potential Partners and Potential Collaborators came from Education and Cultural Attache´ of Indonesian Embassy in Dili, Asian Development Bank and Deutsche Gesellschaft für Internationale Zusammenarbeit/GIZ Sulu-Sulawesi Seascape Project.

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 workshop are to:

1. develop collaborative program actions for the year 2017 and 2018 as the continuation of the results of the 1st CTI-CFF University Partnership 28 February – 1 March 2017;
2. identify mechanism in developing a join-program and proposals on capacity building, research and outreach as well as securing financial supports as.

2 Program Agenda and Chairmanship

The 2-day program agenda on the CTI-CFF University Partnership Workshop on Program Development consisted nine (9) sessions as follows:

2.1 Day 1: 7 August 2017

a. Session I: Opening Session

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: Introduction to CTI-CFF University Partnership Workshop on Program Development 2017-2018

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

c. Session III: Program Priority of CTI-CFF University Partnership 2017-2018 on Capacity Building

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

d. Session IV: Program Priority of CTI-CFF University Partnership 2017-2018 on Research

Chair : **Assoc. Prof. Dr. Ramzah Dambul**
Co-Chair : **Prof. Dr. Peter John Mumby** (ARC Laureate Professorial Fellow
University of Queensland, AUSTRALIA)

e. Session V: Wrap Up Day 1

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

2.2 Day 2: 8 August 2017

a. Session VI: Program Priority of CTI-CFF University Partnership 2017-2018 on Outreach

Chair : **Assoc. Prof. Dr. Ramzah Dambul**
Co-Chair : **Prof. Dr. Marcus Lane** (Dean of Science and Engineering, James Cook
University, AUSTRALIA)

b. Session VII: Integration on Program Priority of CTI-CFF University Partnership 2017-2018

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

c. Session VIII: Closing Session

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

d. Session IX: MoU Signing

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

3 Sessions Proceedings

The CTI-CFF Regional Secretariat hosted the CTI-CFF University Partnership Workshop on Program Development, hereinafter referred to as the "Workshop", on 7-8 August 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 Workshop. The full list of participants is attached as in Annex I.



Figure 1. Group Photo of the CTI-CFF University Partnership Workshop on Program Development

3.1 Session 1: Opening Session

3.1.1 Welcoming Remarks and Opening

The workshop was opened by the Executive Director of CTI-CFF Regional Secretariat, Prof. Ir. Widi A. Pratikto, Ph.D. In his remarks, he appreciated to participants from NCC, universities from CTI-CFF member States and Australia as well as collaborators for their support attending the workshop. He urged for more close partnership and collaborative engagements between Regional Secretariat, National Coordinating Committees (NCCs) and Universities to get support, such as financial and technical assistances for implementing planned activities on Capacity Building, Research and Outreach in pursuing implementation of the RPOA.

3.1.2 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.

3.1.3 Appointment of the Rapporteurs

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

1. Dr. Wilmy Pelle (Lecturer University of Sam Ratulangi, INDONESIA/ Technical Program Assistant of the CTI-CFF Regional Secretariat)
2. Dr. Indri Manembu (Lecturer University of Sam Ratulangi, INDONESIA/ Technical Program Assistant of the CTI-CFF Regional Secretariat)
3. Ms. Dita Primaoktasa (Technical Program Assistant of the CTI-CFF Regional Secretariat)

3.1.4 Introductory Round of the Participants

The Chair invited participants to make brief self-introduction.

3.1.5 Adoption on Agenda

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

- b) The Meeting reviewed and adopted the provisional agenda of the CTI-CFF University Partnership Workshop on Program Development (Annex II).

3.2 Session 2: Introduction to CTI-CFF University Partnership Workshop on Program Development 2017-2018

The elected chair, Assoc. Prof. Dr. Ramzah Dambul was invited CTI-CFF University Partnership Coordinator as well as Senior Manager of CTI-CFF Technical Program Division on this session.



Figure 2. (Left to Right) Senior Manager of CTI-CFF Technical Program Division, Dr. Muhammad Lukman and CTI-CFF University Partnership Coordinator, Prof. Dr. Grevo Gerung

- 3.2.1 The CTI-CFF University Partnership Coordinator, Prof. Dr. Grevo Gerung from Sam Ratulangi University, INDONESIA (*see Figure 2.*), delivered a presentation on the outputs of the 1st CTI-CFF University Partnership Meeting held on 28 February – 1 March 2017. The outputs include:
- Established the CTI-CFF University Partnership Framework (including its funding mechanism);
 - Adopted Programs/action priorities which mainly focus on three mainstream foci: capacity building, research and outreach

The presentation on the Highlight the output of the 1st Meeting of CTI-CFF University Partnership is attached as Annex III

- 3.2.2 The Senior Manager of CTI-CFF Technical Program Division, Dr. Muhammad Lukman (*Fig. 2.*), delivered a presentation entitled **Introduction to the CTI-CFF University Partnership Workshop on Program Development** (Annex IV) which delivered background, objective, outputs, outcomes and agenda of workshop as well as the guideline of the discussion on program development for Capacity Building, Research and Outreach.

3.3 Session 3: Program Priority of CTI-CFF University Partnership 2017-2018 on Capacity Building

The Chair invited Dr. Luky Adrianto, Dean of Fisheries and Marine Sciences Bogor Agricultural University, INDONESIA (*Fig. 3.*) to become as Co-chair.



Figure 3. Dr. Luky Adrianto wearing Batik dress, Dean of Fisheries and Marine Sciences Bogor Agricultural University, INDONESIA (Wearing Brown Batik Attire)

- 3.3.1 There were three (3) capacity building proposed programs priority for CTI-CFF University Partnership 2017-2018:
- i. Special Assistance Program (SAP) for Timor-Leste in Developing Fisheries and Marine Sciences Education
 - ii. International M.Sc. Subject on Coral Triangle Ecosystem Governance
 - iii. Regional Training Program on Climate Change
- 3.3.2 Special Assistance Program (SAP) for Timor-Leste in Developing Fisheries and Marine Sciences Education
- i. Institutions leading in charge of SAP are Hasanuddin University, Indonesia and Jakarta Fisheries University, Indonesia
 - ii. The proposed program has three (3) components during 2017-2018 as following:
 - a. Content development of SAP: September-December 2017 (Q3-Q4, 2017)
 - b. Launching the SAP: January-March 2018 (Q1, 2018)
 - c. Implementation: April-June 2018 (Q2, 2018)
 - iii. The indicative budget for SAP was around 300,000 USD.
 - iv. There were several important notes include:
 - a. Jakarta Fisheries University has experienced providing assistant to Timor-Leste. It covered student living cost (homestay and meals) which located in Jakarta as well as Sidoarjo and Bitung;
 - b. The SAP activities could be an elaboration between academic subjects and capacity building;
 - c. The SAP would focus on individual capacity building in particular with the young scientist;
 - d. University Queensland and James Cook University would like to have further communication with NCC Timor-Leste on the SAP
- 3.3.3 International M.Sc. Subject on Coral Triangle Ecosystem Governance
- i. Institutions leading in charge of International M.Sc. program are Sam Ratulangi University, Indonesia and Universiti Malaysia Terengganu, Malaysia
 - ii. This proposed program has three (3) components during 2017-2018 as following:
 - a. Curriculum preparation for International M.Sc.: September-December 2017 (Q3-Q4, 2017)
 - b. Module development for International M.Sc.: January-June 2018 (Q1-Q2, 2018)
 - c. International M.Sc. program launching: October-December 2018 (Q4, 2018)
 - iii. The indicative budget for International M.Sc was around 1,000,000 USD.
 - iv. There were several important notes include:
 - a. University of Philippines Diliman experienced on the international master program and willing to share the way to create module of the program.
 - b. The join master degree also a concern program of Timor-Leste. They also on progress to have the curriculum development on fisheries management with

Udayana University, Bogor Agricultural University and Padjadjaran University as well which under supervision of Education Ministry of Timor-Leste.

- c. The ASEAN International Mobility Programs (AIMS) was an example of international joint degree and/or course from ASEAN which can be model to developed the International M.Sc. Subject on Coral Triangle Ecosystem Governance
- d. The CTI-CFF International M.Sc. program could be driven by international learning practices. It could be by accommodate the lecturers and/or students from appointed university to travel.
- e. Considering the point 4 (above), the M.Sc. certification could be provided through the university of origin.

3.3.4 Regional Training Program on Climate Change

- i. Institutions leading in charge of The Regional Training Program on Climate Change are Bogor Agricultural University, Indonesia; Institut Teknologi Sepuluh Nopember, Indonesia; University of Queensland, Australia and James Cook University, Australia.
- ii. This proposed program has three (3) components during 2017-2018 as following:
 - a. Curriculum preparation for Regional Training Program on Climate Change: September-December 2017 (Q3-Q4, 2017)
 - b. Module development for Regional Training Program on Climate Change: January-June 2018 (Q1-Q2, 2018)
 - c. Regional Training Program on Climate Change program launching: October-December 2018 (Q4, 2018)
- iii. The indicative budget for Regional Training Program on Climate Change was around 600,000 USD.
- iv. The Regional Training Program on Climate Change would target maximum five (5) persons per each CTI-CFF member country.
- v. There were several important notes include:
 - a. Goal 4 of CTI-CFF RPOA on Climate Change Adaptation (CCA) was the selected theme of the regional training due to it is a big challenge of the Coral Triangle Region and it affects all the CTI-CFF member countries (e.g. extreme weather, ocean acidification)
 - b. CCA with the CTI-CFF Regional Early Action Plan (REAP) could be elaborated with others CTI-CFF Goals (Seascape, EAFM, MPA and Threatened Species) towards the accomplishment and review of RPOA on end of 2020.
 - c. CCA could also address the food security issues which are the CTI-CFF higher outcome.
 - d. There will be a CTI-CFF Blue Carbon in Batangas, Philippines in 29-31 August 2017. This platform can be used by universities to be a platform for knowledge and experience sharing.

3.4 Session 4: Program Priority of CTI-CFF University Partnership 2017-2018 on Research

This session was co-chairing by Prof. Dr. Peter John Mumby, ARC Laureate Professorial Fellow, University of Queensland, AUSTRALIA (*Fig. 4.*) to become as Co-chair.



Figure 4. (Left to Right) Prof. Dr. Peter John Mumby, Assoc. Prof. Dr. Ramzah Dambul and Prof. Widi A. Pratikto, Ph.D

- 3.4.1 Develop a research program requires a strong scientific network among universities partnership. It is the important to have a kind of CTI-CFF scientific database, which can encourage communication among scientist in the region. It is therefore, a CTI-CFF scientific society is recommended to be established
- 3.4.2 Need to identify the source funding as well as potential funder. The potential regional funders are:
- i. ADB RETA 7753 for pacific countries
 - ii. The OCEANS Fisheries Partnership
 - iii. USAID SEA Project
 - iv. Australian Government
 - v. European Union (Horizon 2020)
- 3.4.3 The CTI-CFF research proposal task force are by University of Queensland, Australia together with Institut Teknologi Sepuluh Nopember, Indonesia; Hasanuddin University, Indonesia; Padjadjaran University, Indonesia and MMAF (Agency for Marine & Fisheries Research & Human Development, MMAF), Indonesia.
- 3.4.4 The task force would be focus on:
- i. Drafting the research criteria includes:
 - alignment with national and regional priority
 - geographical strategic
 - research proposal consists of minimum two (2) universities in the partnership
 - ii. Prioritizing research agenda (*see point 3.4.5*)
 - iii. Writing up draft proposal
- 3.4.5 The CTI-CFF research proposal should elaborate the following topics:
- i. Collaborative research of the coral reef adaptation and resilience ability to climate change
 - ii. Research on Connectivity of key species (e.g. corals, fish, turtle, etc.) in the CTI region
 - iii. Coastal livelihood and sustaining and regenerating the ecosystem services
 - iv. Improving university-based community service including assisting the local management authority or government in resource management such as ICZM
 - v. Initiating Regional Center of Excellence of CTI-CFF (a virtual or network based-CoE)
 - vi. Mapping the ocean pattern (pollution)

- vii. Legal framework for the commercial fisheries in CTI region and ethical aspect of fisheries
- viii. Study on the mode of stranded marine mammals and the way to get them out
- ix. Improve availability and accessibility of data to the management or users

3.4.6 To emphasize the effort on CTI-CFF research activities, CTI-CFF research proposal task force need to make a solid proposal within October-December 2017 (Q4, 2017). The indicative budget for research meeting will be around 30,000 USD. Regional Secretariat will facilitate the establishment of CTI-CFF Scientific Society through ministerial meeting

3.5 Session 5: Wrap Up Day 1

Under session five (5) the chair delivered the output of first day workshop which there are three (3) priority activities on Capacity Building. Then, to have a comprehensive research collaboration, there will be also need to identify the research priority within nine (9) topics which mentioned on *point 3.4.5* above.

3.6 Session 6: Program Priority of CTI-CFF University Partnership 2017-2018 on Outreach

The second day of the workshop was continued with session 6. This session was co-chairing by Prof. Marcus Lane, Dean of Science and Engineering, James Cook University, AUSTRALIA (*see Figure 5*).



Figure 5. (Left to Right) Prof. Dr. Marcus Lane, Assoc. Prof. Dr. Ramzah Dambul and Prof. Widi A. Pratikto, Ph.D

- 3.6.1 There were three outreach proposed programs priority for CTI-CFF University Partnership 2017-2018:
- i. Public awareness in the form of exhibition, campaign, media releases, and marine festival
 - ii. Scientific Meeting (Symposium) including participation to others symposium
 - iii. CTI-CFF Science-Business Forum
- 3.6.2 The outreach program needed to be a continuation engagement to deliver the messages and efforts from CTI-CFF which in line with the targeted sectors including of:
- i. **University** (e.g. student) as the core of the partnership.

- ii. **Local Community** as the grass root level of implementation who have the local wisdom. It can also work together with the religion community and woman forum as the motor from coastal community.
- iii. **Government** as decision making levels.
- iv. **Private Sector** to engage on the economic driven.
- v. **NGO and Donors** as partners.

3.6.3 To strength the benefit of the outreach program, the following activities have to support with the assessment according to the area needs.

3.6.3.1 Public awareness in the form of exhibition, campaign, media releases, and marine festival

- i. The Public awareness in the form of exhibition, campaign, media releases, and marine festival would be led by Institut Teknologi Sepuluh Nopember, Indonesia; together with Solomon Island National University, Solomon Islands and University of Malaysia Sabah, Malaysia.
- ii. This public awareness would focus on Marine Festival which also integrated with exhibition, campaign and media releases to enhance roles of those targeted sector.
- iii. This proposed program has 2 components during 2017-2018 as following:
 - a) Meeting Preparation for public awareness: October-December 2017 (Q4, 2017)
 - b) Public awareness (Marine Festival): 9 June 2018 while celebrating the Coral Triangle Day (CT Day) (Q3, 2018)
- iv. The indicative budget for Public Awareness was around 780,000 USD with details:
 - a) Festival : 100,000 USD for each member countries
 - b) Training : 25,000 USD/ training for each member countries
 - c) Printing materials and documentation: 5,000 for each member countries
- v. In addition, there were several notes on this regard:
 - a) Institut Teknologi Sepuluh Nopember, Indonesia shared their experience on conveying the similar festival which participated by students all over Indonesia, local community and local government. It was an integrated activity on culinary and marine product festival, coral reef plantation, open water diving, local health consultation and promoting the new/local ecotourism. The private company engagement could be through promoting the new/local ecotourism.
 - b) The upcoming Marine Festival was planned to have participation from 3,000 CT6 university students.
 - c) The public awareness activity could be the implementing way for university research based on
 - d) The proposed public awareness should be related to CTI-CFF University Partnership focus on capacity building in particularly Regional Training Program on Climate Change

3.6.3.2 Scientific Meeting (Symposium) including participation to others symposium

- i. The symposium will be led by Udayana University, Indonesia together with Hasanuddin University, Indonesia, MMAF (Agency for Marine and Fisheries Research and Human Development), Indonesia and CTI-CFF Regional Secretariat.

- ii. This proposed program has 2 components during 2017-2018 as following:
 - a) Meeting preparation of symposium: October-December 2017 (Q4, 2017)
 - b) Symposium: July-September 2018 (Q3, 2018)
- iii. The indicative budget for Public Awareness is around 100,000 USD/event
- iv. In addition, there are several notes on this regard:
 - a) The symposium is planned to have 100 participants from CTI-CFF member countries.
 - b) The planning symposium proposed to conduct in every 2 years.
 - c) East Asia Seas (EAS) Congress is a model to develop the scientific meeting.
 - d) MY CARAH (11th International Conference on Artificial Reef and related Aquatic Habitats) from the University Malaysia Terengganu, Malaysia is a nearest event related to international scientific meeting on coral reef that NCC along with CTI-CFF University Partnership.

3.6.3.3 CTI-CFF Science-Business Forum

- i. CTI-CFF Science-Business Forum would be led by University of Philippines Diliman, Philippines together with Padjadjaran University, Indonesia (Co. Coordinator); Bogor Agricultural University, Indonesia; Universidade National Timor Lorosa'e, Timor-Leste and CTI-CFF Regional Secretariat.
- ii. This proposed program has 2 components during 2017-2018 as following:
 - a) Meeting preparation of CTI-CFF Science-Business Forum: October-December 2017 (Q4, 2017)
 - b) CTI-CFF Science-Business Forum: October-December 2017 (Q4, 2017)
- iii. The indicative budget for CTI-CFF Science-Business Forum was around 220,000 USD with details:
 - a) Designing meeting: 20,000 USD/ meeting
 - b) CTI-CFF Science-Business Forum: 200,000 USD
- iv. In addition, there were several notes on this regard:
 - a) The proposed CTI-CFF Science-Business Forum was a new term activity that need to have more details to deliver in SOM-13.
 - b) In this opportunity, CTI-CFF Regional Secretariat share the potential collaboration within CTI-CFF University Partnership on CTI-CFF Public Private Partnership on Fisheries Management which supported by USAID and will be held in Bali, March 2019.
 - c) In addition, the upcoming CTI-CFF Regional Business Forum (RBF) is suggested to be conducted back to back with SOM-14 and Ministerial Meeting (MM)-7 in 2018.

3.7 Session 7: Integration on Program Priority of CTI-CFF University Partnership 2017-2018

Under this session, the Chair invited Senior Manager of CTI-CFF Technical Program Division to have deliberation from the inputs on the plenary discussion.

- 3.7.1 The plenary discussion on the session three (3), session four (4) and session six (6) brought the adopted priority activities during 2017-2018.
- 3.7.2 Those adopted priority activities are three (3) activities on Capacity Building, three (3) activities on Outreach and need more details to elaborate the identified topics on Research.
- 3.7.3 Each leading institution and CTI-CFF Regional Secretariat agreed to seek of funding under the CTI-CFF University Partnership Framework particularly on identified funding mechanisms which has been established on the 1st Meeting of CTI-CFF University Partnership

The presentation during this session is attached as Annex V.

3.8 Session 8: Closing Session

- 3.8.1 NCC as the decision makers have the pivotal roles to support the CTI-CFF University Partnership
- 3.8.2 By having CTI-CFF University Partnership, it could strengthen NCC to boost their efforts and power to carry on message in the CTI-CFF platform
- 3.8.3 The involvement, support and commitment from NCC on the CTI-CFF University Partnership was imperative to bring a solid and official partnership
- 3.8.4 The CTI-CFF University Partnership was a motor for NCCC on the scientific activities within regional and/or national target into national level
- 3.8.5 In order to support scientific community network under the CTI-CFF University Partnership platform, it is then necessary to build a “CTI-CFF Scientific Society”. This society would expect to strengthen communication among interested scientists (as individual and expertise). The society becomes a strategic approach in boosting research collaboration under the University platform.
- 3.8.6 To have more details on the identified priority programs, CTI-CFF Regional Secretariat together with CTI-CFF University Partnership needed to write up a concept note that can be proposed to the SOM-13.
- 3.8.7 Institution in charge of developing program details should play a significant role in sewing communication with the other Universities and can produce detail activity planning by the end of 2017. Regional Secretariat will facilitate the communication.

3.9 Session 9: MoU Signing

To continue the efforts of the CTI-CFF University Partnership, CTI-CFF Regional Secretariat had two (2) MoU Signing with The University of Papua New Guinea (UPNG) as well as Universidade Nacional Timor Lorosa’e (UNTL) in the end of the workshop.

4 Matrix of the Priority Programs

As mentioned at the result of Session Seven (7), there are adopted programs on the capacity building, research and outreach as follows.

4.1 Capacity Building

NO.	LEADING INSTITUTION	INDICATIVE BUDGT (USD)	COMPONENT OF PROGRAM	TARGETED COMPLETION DATE*					
				2017		2018			
				Q3	Q4	Q1	Q2	Q3	Q4
4.1.1.	Special Assistance Program (SAP) for Timor-Leste in Developing Fisheries and Marine Sciences Education								
		300,000	Content Development of SAP	√	√				

NO.	LEADING INSTITUTION	INDICATIVE BUDGT (USD)	COMPONENT OF PROGRAM	TARGETED COMPLETION DATE*					
				2017		2018			
				Q3	Q4	Q1	Q2	Q3	Q4
	<ul style="list-style-type: none"> University of Hasanuddin, INDONESIA Jakarta Fisheries University, INDONESIA 		Launching the SAP Implementation			√			
4.1.2.	International M.Sc. Subject on Coral Triangle Ecosystem Governance								
	<ul style="list-style-type: none"> University of Sam Ratulangi, INDONESIA Universiti Malaysia Terengganu, MALAYSIA 	1,000,000	Curriculum Preparation Module Development Program Launching	√	√				
4.1.3.	Regional Training Program on Climate Change								
	<ul style="list-style-type: none"> Bogor Agricultural University, INDONESIA Institut Teknologi Sepuluh Nopember, INDONESIA University of Queensland, AUSTRALIA James Cook University, AUSTRALIA 	600,000	Curriculum Preparation Module Development Program Launching	√	√				√

***Targeted Completion Date:**

Quarter 1 (Q1) = January - March

Quarter 2 (Q2) = April - June

Quarter 3 (Q3) = July - September

Quarter 4 (Q4) = October - December

4.2 Research

NO.	LEADING INSTITUTION	INDICATIVE BUDGT (USD)	COMPONENT OF PROGRAM	TARGETED COMPLETION DATE*					
				2017		2018			
				Q3	Q4	Q1	Q2	Q3	Q4
4.2.1.	Research topics: 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. 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. 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

Task Force:	30,000	Create the Solid Proposal		√					
<ul style="list-style-type: none"> • University of Queensland (Coordinator) • Institut Teknologi Sepuluh Nopember, INDONESIA • University of Hasanuddin, INDONESIA • University of Padjadjaran, INDONESIA • Agency for Marine & Fisheries Research & Human Development, MMAF, INDONESIA 	(This budget is only for preparation of research proposal. Budget raised from research proposal will be interpreted later)								

***Targeted Completion Date:**

Quarter 1 (Q1) = January - March

Quarter 2 (Q2) = April - June

Quarter 3 (Q3) = July - September

Quarter 4 (Q4) = October - December

4.3 Outreach

NO.	LEADING INSTITUTION	INDICATIVE BUDGT (USD)	COMPONENT OF PROGRAM	TARGETED COMPLETION DATE*									
				2017		2018							
				Q3	Q4	Q1	Q2	Q3	Q4				
4.3.1.	Public awareness in the form of exhibition, campaign, media releases, and marine festival												
	Notes: It is planned to relate with CT Day (9 June)												

NO.	LEADING INSTITUTION	INDICATIVE BUDGT (USD)	COMPONENT OF PROGRAM	TARGETED COMPLETION DATE*					
				2017		2018			
				Q3	Q4	Q1	Q2	Q3	Q4
	<ul style="list-style-type: none"> Institut Teknologi Sepuluh Nopember, INDONESIA (Coordinator) Solomon Islands National University, SOLOMON ISLANDS Universiti Malaysia Sabah, MALAYSIA University of Papua New Guinea, PAPUA NEW GUINEA Universiti Malaysia Terengganu, MALAYSIA, Jakarta Fisheries University, INDONESIA 	<ul style="list-style-type: none"> 100,000 (festival) (x CT6) 25,000/training (x CT6) 5,000 (printing materials, documentation) (x CT6) <p>Total Indicative Budget= 780,000</p>	Meeting Preparation		√				
			Festival					√	
4.3.2.	Scientific Meeting (Symposium) including participation to others symposium								
	Note: It is planned to conduct in every 2 years								
	<ul style="list-style-type: none"> University of Udayana, INDONESIA (Coordinator) Agency for Marine & Fisheries Research & Human Development, MMAF, INDONESIA University of Hasanuddin, INDONESIA CTI-CFF Regional Secretariat 	100,000/event	Meeting Preparation		√				
			Symposium				√		

NO.	LEADING INSTITUTION	INDICATIVE BUDGT (USD)	COMPONENT OF PROGRAM	TARGETED COMPLETION DATE*									
				2017		2018							
				Q3	Q4	Q1	Q2	Q3	Q4				
4.3.3	CTI-CFF Science-Business Forum												
	<ul style="list-style-type: none"> CTI-CFF Regional Secretariat Bogor Agricultural University, INDONESIA University of the Philippines Diliman, PHILIPPINES (Coordinator) 	20,000/meeting	Designing Meeting		√								
	<ul style="list-style-type: none"> University of Padjadjaran, INDONESIA (Co. Coordinator) Universidade National Timor Lorosa'e, TIMOR-LESTE 	200,000	Forum									√	

***Targeted Completion Date:**

Quarter 1 (Q1) = January - March

Quarter 2 (Q2) = April - June

Quarter 3 (Q3) = July - September

Quarter 4 (Q4) = October - December

5 Funding Mechanism

The adopted priority activity which formalized on the sessions need to be activated by the funding resources. As established during the 1st Meeting of CTI-CFF University Partnership on 28 February – 1 March 2017, the funding mechanism are set to the following:

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

List of Annexes

(All attachments in this report is available on <http://bit.ly/2x4HPPB>)

- Annex I : List of Attendees
- Annex II : Adopted Agenda
- Annex III : The Highlight the output of the 1st Meeting of CTI-CFF University Partnership
- Annex IV : Introduction to the CTI-CFF University Partnership Workshop on Program Development
- Annex V : Integration on Program Priority of CTI-CFF University Partnership 2017-2018

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