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## SUMMARY REPORT ON WP6 MARE DISSEMINATION AND EXPLOITATION

### Vietnam Partners:

1. Ho Chi Minh City University of Natural resources and Environment (HCMUNRE)
2. Vietnam Maritime University (VMU)
3. Can Tho University (CTU)
4. Oceanography Institute (VNIO)

**Project Period: 15.01.2020 – 14.01.2023**

### I. Ho Chi Minh City University of Natural resources and Environment (HCMUNRE)

#### 1. Dissemination Activities (February 2020 – November 2020)

##### 1.1. Seminar: DEPLOYING WORK PACKAGE PHASE 2 MEETING

**Date: 17- 19 September 2020**

**Coordinator: Ho Chi Minh City University of Natural Resources and Environment and Can Tho University.**

**Place: Hall 2, Department of Environment and Natural Resources, Can Tho University  
Partners: HCMUNRE, VMU, CTU, MCD, VNIO**

### Objectives of the meeting:

- Evaluation of the first period performance.
- Reviewing the unrealized content needs to be supplemented for this period
- The process of building an online teaching module. Things to keep in mind when choosing online teaching content
- Developing materials for the online course
- Software for building online courses
- Reporting the detailed course's outlines of the subjects registered
- Discussing course outline content and sharing possibilities
- Agree on the implementation process and time
- Progress monitoring and product implementation
- Determine next steps
- Introduce of relevant facilities of CTU and their main activities

**Agenda of seminar:** <https://marehcm.biendaohcm.com/?p=5896>

### Summaries:

From September 17 to 19, 2020, at Hall 2, Faculty of Environment and Natural Resources, Can Tho University, Vietnam, there was a seminar “Implementing MARE project, phase 2 – Marine Coastal and Delta Sustainability for Southeast Asia -MARE”. Mode of seminar included live and online via zoom software. Attendees come from five partnerships from CTU, HCMUNRE, VNIO (live mode), VMU and MCD (online mode) using zoom software.

There were five main topics There are discussed in the seminar as follow:

- Evaluation of the first period performance from each partners
- Development of online courses and course materials
- Introduction of the detailed course’s outlines
- Financial and Administrative Issues
- Next activities - date and products



Full information about this seminar at: <https://marehcm.biendaohcm.com/?p=5951>

### **1.2. Seminar on “Building The network among Vietnamese Partnerships in implementation of ERASMUS + Funded Projects”**

**Date: 16 October 2020**

**Coordinator: Ho Chi Minh City University of Natural Resources and Environment**

**Place: Hall A, Ho Chi Minh City University Of Natural Resources and Environment.**

**Partners: HCMUNRE, VMU, CTU, VNIO and other 18 Universities in Vietnam: University of Social Sciences and Humanities – VNU HCMC; University of Natural Sciences – VNU HCMC; University of Technology – VNU HCMC; University of Economics and Law – VNU-HCM; Ho Chi Minh City Open University; An Giang University – VNU HCMC; Thai Nguyen University of Technology; University of**

Economics, Hue University; Van Lang University; Ho Chi Minh City University of Pedagogy; Thuy Loi university; VNU University of Science – VNU; Thai Nguyen University of Agriculture and Forestry; Institute of Environmental sciences and Technology – Hanoi University of Technology; Hanoi University of Mining and Geology; Hanoi Architectural University; University of Economics Ho Chi Minh City; Ho Chi Minh City University of Transport .

**The purpose of the seminar:**

- To strengthen the connection between partnerships throughout the country.
- To exchange and share experience, results and effectiveness of the project bring to partnerships and the society as well as through the international communication .
- Building partnership networks for sharing experience and results.

**The content of the seminar:**

- To exchange and share experience and results of the projects
- The process of Implementation, ability to connect partner countries
- The effectiveness of the project
- Proposing future linkage and cooperation directions



Full information about this seminar at: <https://marehcm.biendaohcm.com/?p=5996>

**1.3. Meeting " the adoption of online teaching course syllabus"**

**Date: 2 November 2020**

**Coordinator: Ho Chi Minh City University of Natural Resources and Environment**

**Place: Hall B, Ho chi Minh City University of Natural Resources and Environment.**

**Partners: HCMUNRE MARE's staff and Science council members of Marine resources management Faculty.**

On November 2, 2020, the leaders of Marine resources management Faculty, Ho Chi Minh City University of Natural Resources and Environment had the meeting with the

faculty' Science council members on reviewing and updating training programs for BSc. students, major in management of marine resources and environment.



During the meeting, the faculty leaders have discussed with the Science council members seven detailed outlines of updated and new courses in the training program for teaching in the coming years.

- 1- marine ecology (3 credits = 4,5 ECTS)
- 2- Modeling of the marine environment (3 credits = 4,5 ECTS)

New courses expected to be included in the curriculum in the coming years include:

- 3- Marine resources and environment management (3 ECTS)
- 4- Control of marine pollution (3 ECTS)
- 5- Ports and marine structures (3 ECTS)
- 6- River and sea interaction (3 credits = 4,5 ECTS)
- 7- Oceanography of fishing (3 ECTS)

These are also courses that have been proposed by the MARE project to be included in the online / face-to-face curriculum for the 3rd and 4th year students of the Faculty over the next coming years.

Full information about this news: <https://marehcm.biendaohcm.com/?p=6018>

## **2. Promotion on MARE**

### **2.1. MARE - HCMUNRE Official Website (February 2020)**

Project MARE activities have been built into a sub-website in the domain of the Faculty of Marine and Island Resources Management, under HCMUNRE. This is the agency implementing the MARE project. The MARE website has officially operated since February 2020. All activities related to MARE are posted at the following link:

<https://marehcm.biendaohcm.com/>



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**MARE**

**Marine Coastal and Delta Sustainability for Southeast Asia**

Universität Bremen, National Research Council of Italy, IAS, Uni KUL, Universiti Kuala Lumpur, Universiti Sains Malaysia, Universiti Kebangsaan Malaysia, Universiti Teknologi Malaysia, UTM, UTP, UTM

HOME - TRANG CHỦ ABOUT MARE- GIỚI THIỆU MARE HCMUNRE ACTIVITIES - HOẠT ĐỘNG CONTACT - LIÊN HỆ FACEBOOK

Welcome to the Marine Coastal and Delta S

**PHOTOS GALLERY**

**PROJECT NEWS**

Opening and Graduation Ceremonies of the Academic Year of 2020 - 2021  
November 8, 2020

The science council meeting on the adoption of online teaching course syllabus

**UPCOMING EVENTS**

Seminar on "Building the network among Vietnamese partnerships in implementation of Erasmus+ funded projects" in response to the international Erasmus Day 2020  
October 5, 2020

MARE DEPLOYING WORK BACK

Hãy đ

## 2.2. MARE Flyer, poster

**Method: HCMUNRE MARE and flyer**

**Purpose: To promote ERASMUS+ MARE project to the website audience**

## HO CHI MINH UNIVERSITY OF NATURAL RESOURCES AND ENVIRONMENT



HCMUNRE is under the Ministry of Natural Resources and Environment, over 40 years of construction and development, HCMUNRE has been positioned in the higher education system to train about technology, resource management, clean environment. There are over 8,000 students with 17 training programmes about natural resources and environment.

About facilities system for teaching, learning and scientific research of the HCMUNRE with 7 laboratories, 7 practice rooms and 4 meteorological monitoring stations and the Environment Laboratory (ISO / IEC 17025: 2005 certification), meteorological forecasting practice Room.



### PROJECTS FUNDED BY ERASMUS PLUS

**SEA-ASIA (2019-2023)** - Strategic Environmental Assessment for Capacity Development in Higher Education.

**Partners:** Aalborg Universitet; Hajee Mohammad Danesh Science and Technology University, Dinajpur; Jahangirnagar University; National University of LAOs; Savannakhet University; Thuy Loi University; Ho Chi Minh University of Natural Resources and Environment, Vietnam; Universidade De Lisboa; Goeteborgs Universitet.



**SAUNAC (2016-2019)**- Sustainability Alliance of Urban Network in Asian Cities

**Partners:** Turku University of Applied Sciences, Finland; Universitat Politècnica De Valencia, Spain; Hochschule Fuer Angewandte Wissenschaften, Germany; Stichting Hogeschool Utrecht, Netherlands; Manchester Metropolitan University, UK; Danang University of Science and Technology, Vietnam; Vietnam National University; Hue University of Sciences; Haiphong University; Hanoi University of Civil Engineering, Institute of Environmental Science & Engineering, Vietnam; Ho Chi Minh City University of Natural Resources and Environment.

**MARE (2019-2023)** - MARE - Marine Coastal and Delta Sustainability for Southeast Asia.

Website: <https://marehcm.biendaohcm.com/>

**Partners:** University of Bremen University – Germany (UNIHB), University of Catania – Italy; Estonian University of Life Sciences, Estonia; National Research Council, Italy; Ho Chi Minh City University of Natural Resources and Environment ; Vietnam Maritime University; Can Tho University; Oceanography Institute; Centre for Marine Life Conservation and Community Development; Universiti Kuala Lumpur, Malaysia ; Universiti Teknologi Malaysia, Malaysia; Universiti Teknologi PETRONAS, Malaysia; Universiti Malaysia Terengganu, Malaysia.

**INTENSE (2018-2021)** - Integrated Doctoral Program for Environmental Policy, Management and Technology.

**Partners:** Estonian Life Science University, Estonia; University of Latvia, Latvia; Erda Research Technology Education, the Netherlands; RZ. Research. Management. Communication' Company, Sweden; National University of Mongolia; Khovd University, Mongolia; Odessa State Environmental University, Ukraine; Kharkiv V.N.Karazin National University, Ukraine; Institute for the Carpathians' Ecology of the Ukrainian Academy of Sciences, Ukraine; Hanoi University of Science and Technology, Vietnam; Ho Chi Minh City University of Natural Resources and Environment, Vietnam.

[HCMUNRE]

Poster for celebrating # ERASMUSDAYS 2020

Information have posted at the link <https://marehcm.biendaohcm.com/?p=6039>





### 2.3. Opening and Graduation Ceremonies of the Academic Year of 2020 – 2021

**Date: 6 November 2020**

**Coordinator: Ho Chi Minh City University of Natural Resources and Environment**

**Place: Ben Thanh Hall, Mac Dinh Chi, District 1, Ho Chi Minh City**

**Attendees: over 2000 participants**

On November 6, 2020 at Ben Thanh Hall, Ho Chi Minh City University of Natural Resources and Environment solemnly held the Opening and Graduation Ceremonies of the Academic year of 2020-2021 to more than 1200 freshmen, 700 new bachelors and new engineers.



During the ceremony, Assoc. Prof. Dr. Huynh quyen has introduced the facilities, staff, teachers of the faculties as well as the scholarship programs, joint cooperation in undergraduate and graduate training and international projects. Especially the summer and winter courses for students with good academic records that have been implemented in the international projects like MARE, SEA-ASIA, INTENSE, SAUNAS... Information about the MARE project and Bachelor of Marine Resources and Environment Management programme were also introduced and explained.

**Full information about this event at <https://marehcm.biendaohcm.com/?p=6026>**



## II. Vietnam Maritime University (VMU)

**Date:** 14 May 2020

**Coordinator:** Vietnam Maritime University (VMU)

**Place:** Meeting room No. 2.1, A1 building, Vietnam Maritime University

**Attendees:** Deans and lecturers of related VMU's faculties and institutes

**The VMU's coordinating board of the MARE project**

WP6 MARE Dissemination and Exploitation has been carried out actively by Vietnam Maritime University with 3 steps, as followings:

### **Step 1: Provide all project members of VMU adequate information of MARE**

Under the permission of leaders of Vietnam Maritime University, the VMU's coordinating board of the MARE project was created in order to effectively manage and implement activities. Step 1 is regarded as an important part of WP6 implementation for making VMU team understand clearly about schedule, purpose, programs of MARE. When VMU's coordinating board who directly operate project categories to have sufficient and timely information, they can easily and quickly publish and spread MARE project to the community and everyone. In the period when COVID-19 pandemic has happened, members of board tried to contact with each other by mobile phone and on-line meetings. On the basis of exchanged information, members have implemented the WP 6.2 (Development of MARE detailed business plan) with purpose of assigning tasks to each member to keep up the progress of the MARE project.




### **Step 2: Popularize by official website of VMU**

We take advantage of social media to popularize, to spread the MARE project widely and to bring this project closer to everybody, especially students, lecturers and training centers. Vietnam Maritime University has dedicated time and efforts to convey knowledge to learners, with the goal to let the young generation know and understand clearly about the significance of ecosystem and have right behaviors to manage and preserve it.

TRƯỜNG ĐẠI HỌC HÀNG HẢI VIỆT NAM  
VIETNAM MARITIME UNIVERSITY

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News & Events

- The project on Marine Coastal and Delta Sustainability for Southeast Asia (27/07/20)
- Kick-off meeting of the project on Marine Coastal and Delta Sustainability for Southeast Asia (MARE) (27/07/20)
- The international workshop "Enhancing competence of Japan-Mekong Regional Logistics Training Center in Viet Nam" - stage 2" hosted by VMARU (10/02/20)
- Opening the 2nd pilot training and TOT course for CLMV under the theme of the project on Enhancing Competence of Japan-Mekong Regional Logistics Training Center in Vietnam - The 2nd Stage. (20/12/19)
- Vietnam Maritime University hosted the 18th Asia Maritime and Fisheries Universities Forum-AMFUF 2019. (08/12/19)

Admission

VIMARU 64 YEARS

Vietnam Maritime University has been being responsible for providing the following education and training:

- Engineer and Bachelor: 48 majors.
- Master of Science: 13 majors.
- Doctor of Philosophy (Ph.D.): 07 majors.

Multimedia

Vietnam Maritime University L...

Traditional songs: "The University of Ocean"

Partner

Erasmus + Project

WANASEA MARE

MARE Project has been placed at the official English website of VMU by:

<http://eng.vimaru.edu.vn/>

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MARE – Marine Coastal and Delta Sustainability for Southeast Asia

GENERAL INFORMATION

- MARE PROJECT (07/08/20)
- GENERAL PLAN (08/08/20)
- COORDINATING BOARD (04/08/20)

NEWS

- KICK-OFF MEETING OF MARE PROJECT (04/08/20)

UPCOMING EVENTS

Incoming info.

Partner

Erasmus + Project

BẢO GIÀ THÔNG CAMPUS FRANCE AMC

WANASEA MARE

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Moreover, in the near future, a new sub-web of the MARE project which directly linked to the official website of VMU will be created. At the present, we are discussing with IT departments to carry out this work. We hope that new sub-web of MARE project activities with trendy language, vivid images and various structure can attract many people.

## KICK-OFF MEETING OF MARE PROJECT

MARE organized a kick-off meeting marked as one of the beginning activities of the Marine Coastal and Delta Sustainability for Southeast Asia (MARE) project. This meeting with involvement of 11 institutional members took place from 18 to 20 February, 2020 in the Center for Multimedia in Higher Education (ZMML), University of Bremen, Germany. The specific objectives of the meeting are as follows:

- Introduce the main coordinator and partner institutions
- Introduce responsibilities, work and research areas of partners
- Discuss key contents, timetables, working package, project planning etc.
- Define rules and guidelines for cooperation
- Issues related to finance and administration
- Introduce about E-learning, Quality Control Matrix and Training
- Present programs and activities of first year (2020)
- Direction to the next stage



WP 6.1 (Development and maintenance of MARE www portal, social media accounts and promotion plan) has been conducted. Staff in VMU spent time gathering information and writing online news. Images, general plan, schedule and activities/ programs directly related to the MARE project was uploaded and updated on the official English website of Vietnam Maritime University.

### Step 3: Long-term MARE Dissemination and Exploitation

In the long-term, VMU aims to raise awareness of students, to boost teaching and research quality of young lecturers, scientists on coastal management, environmental protection and sustainable development. It takes time and efforts to conduct step 3 effectively. In upcoming time, the VMU's coordinating board will try the best to provide knowledge and information of MARE project for students, learners and staff with a dream of the long-lasting efficiency of the post-project development.





### III. Cantho University (CTU)

#### 1. The seminar “Implementing MARE project, phase 2 – Marine Coastal and Delta Sustainability for Southeast Asia -MARE”

**Date:** September 17-19 2020

**Coordinator:** College of Environment and Natural resources management, Cantho University - and Ho Chi Minh City University of Natural Resources and Environment-HCMUNRE

**Place:** Cantho University, Campus II – 3/2 Street, Ninh Kieu District, Cantho City

**Attendees:**

**HCMUNRE:** Nguyen Thi Van Ha, Le Thi Kim Thoa, Tran Thi Kim.

**VNIO:** Phan Minh Thu, Huynh Minh Sang, Bui Hong Long.

**CTU:** Le Anh Tuan, Nguyen Hieu Trung, Nguyen Dinh Giang Nam, Lam Van Thinh, Van Pham Dang Tri, Vo Quoc Thanh, Tran Van Ty, Huynh Vuong Thu Minh.

**VMU:** Tran The Nam, Pham Tien Dung, Dao Van Tuan, Tran Duc Phu, Dinh Thi Thuy Hang, Duong Phan Anh, Quan Thi Minh Hien, Hoang Thi Khanh Huyen.

**MCD:** Ho Thi Yen Thu.

- The meeting started with Dr Le Anh Tuan welcomed all of participants - all participants introduced themselves briefly.




- Dr Le Anh Tuan also represented Dragon institute \_CTU of introduction of the CTU's role in the Mare project and adoption of meeting agenda (attached of 3 days meeting agenda).



- Final discussion and conclusion: Dr. Thoa was together with Dr. Tuan, Dr. Minh, Dr. Sang and Mr. Thu to developed the text activities for course development as detail below (remark: Dr. Ha will send to all VN participants a template for course online (.doc) before September 25 2020.


Link Seminar: <https://cenres.ctu.edu.vn/tin-tuc/545-mare-deploying-work-package-phase-2-september-17-19-2020.html>


#### Presentation of CTU group



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**MARE - DEPLOYING WORK PACKAGE PHASE 2 MEETING**  
Can Tho, Vietnam  
17<sup>th</sup> – 19<sup>th</sup> September 2020





**MSc. Training Course:**

**FUNDAMENTALS OF CLIMATE CHANGE  
AND NATURAL DISASTERS**

**Le Anh Tuan, PhD.**  
Can Tho University  
E-mail: [latuan@ctu.edu.vn](mailto:latuan@ctu.edu.vn)

Dr. Le Anh Tuan presented Fundamentals of climate change and natural disasters - 3 ECTS (Master of Climate change and Delta Management)





Dr. Nguyen Dinh Giang Nam presented the revised course of watershed management - 3 ECTS belong to Master of Climate change and Delta Management, CTU

<p>MINISTRY OF EDUCATION AND TRAINING CAN THO UNIVERSITY</p> <p><b>COURSE SYLLABUS</b></p> <p><b>1. INFORMATION OF COURSE AND LECTURER</b></p> <p>1.1. Course name and code: <b>Climate change mitigation and adaptation</b></p> <p>1.2. Course specification: 3 Cred. (T: 30; A: 15; P: 15)</p> <p>1.3. Prerequisite: None</p> <p>1.4. Responsible Department: Climate Change Research Institute</p> <p>1.5. Information of lecturer:</p> <p>Name: Nguyen Hieu Trung (College of Environment and Natural Resources) Email: <a href="mailto:nhtrung@ctu.edu.vn">nhtrung@ctu.edu.vn</a> Co-teaching lecturer: Name: Dang Kieu Nhan (Mekong Delta Research Institute) Email: <a href="mailto:dknhan@ctu.edu.vn">dknhan@ctu.edu.vn</a> Name: Mitsuru Osaki (Professor Emeritus, Hokkaido University) Email: <a href="mailto:mosaki@chem.agr.hokudai.ac.jp">mosaki@chem.agr.hokudai.ac.jp</a></p>	<p>MARE - DEPLOYING WORK PACKAGE PHASE 2 MEETING Can Tho, Vietnam 17<sup>th</sup> - 19<sup>th</sup> September 2020</p> <p><b>Hydrological Modelling</b> <b>Mô hình thủy văn</b></p> <p>Lecturer: <u>Trần Văn Tỷ</u> <u>Huỳnh Vương Thu Minh</u></p>
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Revised courses of Master program of Dr. Trung and Dr. Minh

## 2. CTU participated online the Erasmus day on Oct 16 2020

#Erasmusdays – Seminar on “Building The network among Vietnamese Partnerships in implementation of ERASMUS + Funded Projects”

**Date:** October 16 2020

**Coordinator:** Ho Chi Minh City University of Natural Resources and Environment- HCMUNRE

**Place:** Ho Chi Minh City University of Natural Resources and Environment- HCMUNRE

**Attendees: CTU:** Nguyen Dinh Giang Nam, Lam Van Thinh, Vo Quoc Thanh, Huynh Vuong Thu Minh.



Presentation of Dr. Huynh Vuong Thu Minh on Erasmus day

Co-funded by the Erasmus+ Programme of the European Union

**Xây dựng mạng lưới kết nối các đơn vị thực hiện dự án được tài trợ bởi ERASMUS**  
 16<sup>th</sup> October 2020

Các dự án ở CTU được tài trợ từ Erasmus

Presented by: Huỳnh Vương Thu Minh (CTU)

CONSEA project: The aim of the Project is to ensure the conservation of biodiversity and the sustainability of the environment surrounding the Mekong River basin through the development

of Master and Doctoral programs (in cooperation between Southeast Asian countries (Cambodia). and Vietnam) and European countries

**INTRODUCTION**  
The Master program in Aquatic resource diversity and conservation was formulated in the framework of the project "Developing curricula for Environmental safety and Conservation of the Biodiversity in South-East Asia" (CONSEA) with support from University of Toulouse III-Paul Sabatier (France), University of Gent (Belgium), University of Girona (Spain) and University of Natural Resources and Life Sciences (BOKU - Austria).

**OBJECTIVES**  
The program aims to strengthen students with deep knowledge on aquatic biodiversity, conservation biology, environment impact assessment and ecosystem management and facilitate them to be proactive, creative and able to work and do research independently to apply in practice for protection, conservation of aquatic biodiversity and resources for sustainable management of the ecosystems.

**JOB OPPORTUNITY AND FURTHER STUDY**  
After graduation, students are capable to work at different positions such as leader, manager, officer, staff of the conservation, protection of governmental or non-governmental organizations, researcher or lecturer on biodiversity conservation, aquatic resources of national or international institutions. Students can continue to pursue PhD degree at universities offering programs on aquatic biodiversity and conservation.

**Admission**

**INTRODUCTION**  
The PhD program in Aquatic resource diversity and conservation was formulated in the framework of the project "Developing curricula for Environmental safety and Conservation of the Biodiversity in South-East Asia" (CONSEA) with support from University of Toulouse III-Paul Sabatier (France), University of Gent (Belgium), University of Girona (Spain) and University of Natural Resources and Life Sciences (BOKU - Austria). This is the sub-discipline of the PhD program in Aquaculture at Can Tho University.

**OBJECTIVES**  
The program aims to train students to (i) obtain broad and holistic knowledge on the area of Aquatic biodiversity and conservation; (ii) be proactive, creative and independent thinking; (iii) be capable to lead and manage research activities; (iv) be able to solve specialized issues at national and international scales/levels.

**PROGRAM STRUCTURE**  
The program duration is 3-4 years. During this period, the PhD students have to complete 12 credits coursework, 3 special topics. Research proposal should be finished and defended before 18 months. Four seminars on the research contents must be completed before the dissertation defense in addition to two peer review published papers.

**Vietnamese - European Knowledge and Technology Transfer Education Consortium - VETEC”**



**3. Introduce of Mare project activity**

**Date:** November 1 -15 2020  
**Coordinator:** Department of Water resources  
**Place:** CENRes, CTU  
**Attendees:** Nguyen Hieu Trung, Vo Quoc Thanh, Huynh Vuong Thu Minh.







Vietnam Project Coordinator  
Dr. Le Thi Kim Thoa (P5)



Vietnam Project Coordinator  
Dr. Le Thi Kim Thoa



