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MARE WP3.1 Deployment and Implementation of E-Mare



VMU

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One of MARE purposes is to support partner institutions in providing and upgrading equipment which is used in facilitating teaching and learning activities. It is an honor of VMU to become a partner of MARE network and receive significant support under MARE project.

On 16th January 2021, 21 pieces of equipment sponsored by MARE were completely installed in a meeting room in VMU's campus and at two academic units, namely Environment Engineering Institute and Civil Engineering Faculty. Since then, several activities related to MARE project have been organized thanks to the use of them.

A/ The meeting room no. 2.1 of Vietnam Maritime University

In the period of COVID-19 pandemic, the video conference equipment of MARE project has played an important role in enhancing international cooperation and organizing online training. With the advantage of connecting for a quick video conference conversation and using a screen-share function, these pieces help us to improve productivity and easily address related problems.

In February 2021, the equipment was used for online meeting with Ministry of Transport of Viet Nam and concerned departments. The below pictures showed three leaders of VMU attending the online meeting.



Figure 1. Online meeting with Ministry of Transport of Viet Nam



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On March 24th and 25th, 2021, Korea Maritime Institute - KMI and Vietnam Maritime University - VMU organized a webinar on the management and operation of the training vessel for 35 staffs and lecturers of VMU.



Figure 2. Webinar between KMI and VMU

In March 2021, VMU's coordinating board held a meeting with lecturers and staffs of Environment Engineering Institute and Hydraulic Engineering Faculty to discuss effective usage and suitable installation of equipment. During the meeting, we consulted and shared our initiatives and ideas about editing eLearning materials. After the meeting finished, whenever lecturers need assistance and have questions related to equipment, they can be feel free to contact with members of the VMU's coordinating board for support.



Figure 3. Meeting between VMU's MARE coordinating board and related academic units



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In the year of 2022, we continue to promote the use of MARE equipment. Apart from online meeting and conference, pieces of equipment are utilized for the purpose of scientific activities. Under the pressure of COVID-19 pandemic with travel restrictions and social isolation of each country, the equipment of MARE project has a significant meaning, which helps bring people closer together and overcome difficulties of geographical distance. Many departments in Vietnam Maritime University have applied these pieces of equipment for scientific research exchange.

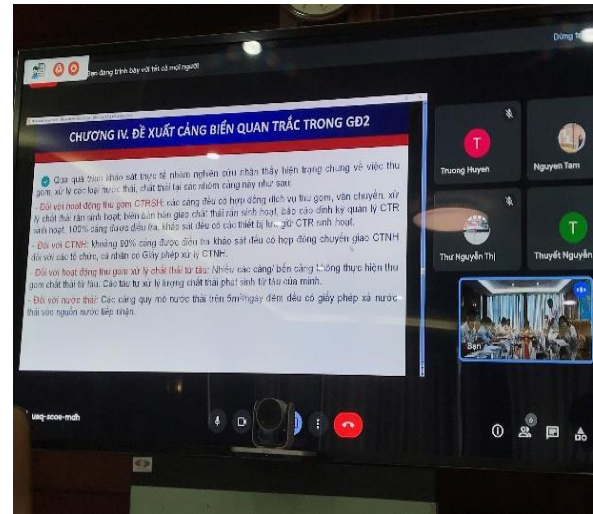
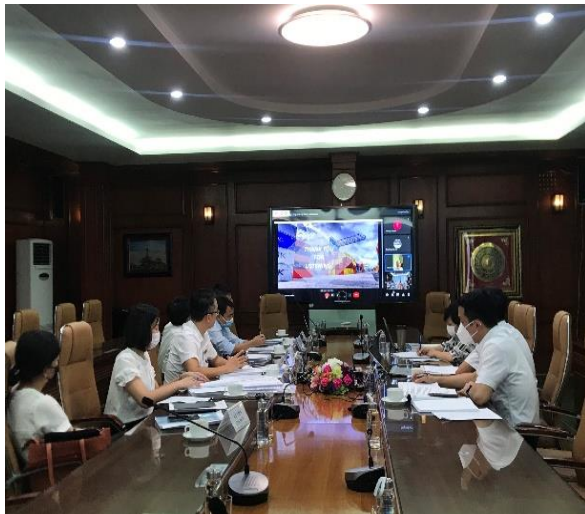


Figure 4. Scientific activities with MARE equipment

In the first half of 2023, there have been important events taken part in the room successfully thanks to great operation of existing equipment and facilities. Significantly, from 15th to 17th February, 2023, Vietnam Maritime University is honored to hold the MARE project meetings and workshop on “The Enterprise-Academy Connection on Marine Coastal and Delta Sustainability”. On 16th February 2023, the workshop was held with the participant of many famous universities and a large number of enterprises in the maritime field from Germany, Italy, Estonia, Malaysia, and Vietnam. In this workshop, all partners have taken a chance to share their viewpoints on the roles of different institutions and organizations to build a strong network for educational and training purpose. Case studies in Vietnam, Estonia and Malaysia were presented, allowing MARE partners to share experiences, to discuss and learn from each other in an open atmosphere. The



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workshop also provides initiatives in action-based learning approach and the establishment of online courses for sustainable development.



Figure 5. The workshop “The Enterprise-Academy connection on Marine Coastal and Delta Sustainability

On the 18th February 2023, an e-book meeting was organized at Vietnam Maritime University with 18 participants from 5 Vietnamese institution partners of MARE project. This is a continuant meeting after the first e-book meeting held in HCMUNRE in December 2022. In this meeting, all partners have shared their work on organizing and restructuring the e-book named “An overview of Natural Resources and Environment in Coastal Areas of Vietnam”. Taken the remarks in the previous meeting, members in the e-book composing board have worked dedicatedly to complete the workload. In an opening discussing atmosphere, all partners have reached agreement on the final outline of the e-book and main contents of each chapter. Further activities to edit the e-book are also assigned and planned for the coming meeting in June 2023.



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Figure 6. The e-book meeting at VMU on Feb 2023

B/ The academic units

At the two academic units where sponsored equipment was installed, many meaningful outcomes were delivered. During the Covid-19 period, there was students who couldn't come to classes and laboratories that caused bad influences on their ability to capture knowledge and follow the studying schedule. Consequently, using equipment provided by MARE project, lecturers of Civil Engineering Faculty and Environment Engineering Institute have made videos to record lectures of selected courses. The materials were shared to students with free access so that they could continue their learning progress quickly after recovering from the disease.

The online training and exam can be regarded as an effective plan for academic program in the COVID-19 pandemic. The MARE pieces of equipment help us meet requirements of online teaching and to ensure the quality of lecturing with the hope of making attractive lessons.



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Figure 7. Online teaching with MARE equipment

In 2021, the equipment was used for online teaching to some classes as in below table:

No.	Courses	Number of students and learners
1	Ocean Environmental Management	100
2	Control and management of marine environment	88
3	Hydro-meteorology	30
4	Environmental Law and Policy	36
5	Sustainability in coastal construction	37



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When Covid-19 has no longer prevented the off-line teaching and learning activities at VMU, these equipment and facilities have been used by lecturers and students to produce reference materials, sharing interesting and useful knowledge in a more effective format to learners. For instance, videos of practical exercises which are normally conducted inside a lab allow students to watch on their phones or laptops at anytime and anywhere. A series of short video clips with lively images and ear-catching music was proven to be an effective method to introduce meaningful and updated information to more and more learners. These works have been in the process of editing, and soon will be shared to learners via our website. Some images of students' videos are presented below.



Figure 8. Videos made by VMU students to illustrate a practical exercise in the course of Environment Management