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MARE research framework – the questionnaire

The name of the partner organisation:

Institute of Oceanography and Environment, Universiti Malaysia Terengganu

Contact person and e-mail address:

Assoc. Prof. Dr. Mohd Fadzil Mohd Akhir, mfadzil@umt.edu.my

Departments or other academic units at your organisation concerned with MARE-related topics:

1 Faculty of Science and Marine Environment

Current and past projects implemented at your institution and concerned with MARE topics:

Add as many lines as necessary

Project title	Funding agency	Project topics concerned (2-3 keywords)	Type of the project (research, education, mobility, capacity for the organization or external stakeholders building, promotion etc)	Possible links to MARE (joint activities, agreements, ...)
Interaction of ocean dynamics with the climate system of past, present and future using ocean observation integrated data and numerical modeling	Ministry of Higher Education	Marine Science, Climate Change, Ocean Dynamics	Reserach	Education and mobility activities
Development of Integrated System of Ocean Forecasting and Observation Network in Malaysia Waters of Southern South China Sea. International Collaboration Fund-MOSTI	Ministry of Science, Technology and Innovation, MOSTI	Marine Science, Climate Change, Ocean Dynamics, Numerical Modeling	Research and Mobility	



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PHD Programs available

-none-

Topics of PhD thesis (or other graduate works if you do not have a PhD program)

1. The Dynamics of South China Sea Western Boundary Current and its upwelling variability
2. The Impact of climate change towards the ocean dynamics and upwelling processes in southern South China Sea

Key personalities at your organisation publishing on MARE -related topics:

Name	Key words (2-3) describing research interests	Personal webpage, if applicable
Mohd Fadzil Mohd Akhir	Ocean Dynamics, Upwelling Processes, Numerical Modeling	<ul style="list-style-type: none"> • https://www.scopus.com/authid/detail.uri?authorId=55260277800 • https://orcid.org/0000-0003-2055-1988
Hing Lee Siang	Marine Pollution, Marine Productivity	https://www.scopus.com/authid/detail.uri?authorId=57211923397
Ong Meng Chuan	Marine Pollution, Microplastics, Heavy Metals pollution	https://www.scopus.com/authid/detail.uri?authorId=57220668305
Nur Hidayah Roseli	Coastal Processes, Ocean Productivity, Numerical Modeling	https://www.scopus.com/authid/detail.uri?authorId=56375926600

Current research profile of the organization in relation to MARE topics:

UMT is a higher learning institution that provide learning and research capacity with a specific focus towards the field of marine and aquatic science.

Institute of Oceanography and Environment (INOS) is an institution under UMT that focuses to excel in ocean and marine science research. It encourage a multi and transdisciplinary research which includes post graduate training and encourage knowledge transfer and technology exchange by developing linkages with marine and ocean related industry.

Our institute has always been a focal point at national level in the area of marine and ocean in Malaysia. Our connection reaches government agencies, universities, research institutions and industry players. We provide many courses and trainings throughout the years that covers emerging and important topics. On the other hand, our academics are continuously involves in postgraduates teaching. Outcome from this program will suits our regular commitment which is providing regular training courses and teachings to postgraduates subject/programs and also to officers/staffs from various agencies through training program. We would like to commit to this project as it transpire the same aspiration hold by our institutions.

Ambitions of the organization (in terms of research topics) or aspired activities in relation to MARE topics (i.e. research collaboration agreements, phd supervision, internships for phd students to Eu partners)

- *INOS will providing courses and learning materials that is based on the local knowledge of the south-east Asia especially related to Malaysia context*
- *INOS aspire to contributes to the development of Syllabi and teaching and learning resources for marine science and oceanography*
- *INOS targets to develop comprehensive content and research environment for postgraduate students studies in marine science and oceanography*

Obstacles and barriers hampering the aspired developments

Limited resources such as data for postgraduate research support and new equipment to cope with current technology and research needs.

Enabling conditions and positive factor behind your current successes in relation to MARE -related research developments, and/or making you hopeful about your ambitions:

Good research collaboration with international partners. This has allow transfer knowledge and idea exchange that has allow better ideas to be implemented at institutional level.

Specific capacities you want to develop to reach you aspired MARE-related research goals, such as equipment, training for academic or technical staff, access to international databases, external experts support or PhD supervision etc etc

Increase capability in blended learning by using engaging teaching materials, easily accessible data and information and readily freely accessible data for teaching and research.

What are specific enabling conditions or obstacles for the development of research training at your organization – in general, and in MARE-related fields

Specific training for lecturer in development of quality teaching materials is lacking. This is important to make sure teaching and research content can be prepared by materializing available system such as e-learning platform and eportfolio.