

MARE Sustainability



Title:	MARE - Marine Coastal and Delta Sustainability for Southeast Asia		
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Partners:	UniHB, UNICT, EMU, CNR, HCMUNRE, VMU, CTU, MCD, VNIO, UniKL, UTM, UTP. UMT		

The activities ensuring project sustainability will be encompassed in detailed post-project business plan (M30). Some of the activities, such as maintenance and regular revision of curricula & learning materials or PhD research framework, do not require additional external funding, once they are approved at institutional or national level as required by the relevant procedure (e.g. accreditation), and become a part of regular operations of HEIs (i.e. covered from institutional budgets, tuition fees, or governmental subsidies). Likewise, the MARE open education platform will be integrated to organisational routine, as such developments (in particular related to distant learning, virtual mobility, & LLL) are requested by PC ministries of education and outlined in PIs' strategic planning documents.

Course upgrade will require additional staff time, and this, where necessary, will be covered by the SCPs and tuition revenues. In order to implement actions of a project-based nature (e.g. radical refurbishment of MARE, introduction of a new courses to catch up with new developments in the field, creation of entirely new MOOCs). .Sustainable Project Outcomes: new Syllabi, Teaching and Learning materials, eLearning Modules and MOOCs.

Long-term perspectives: The main project outcomes are designed to last after the end of the EU funding. It has all the potential to be used and further developed by the consortium members.

Sustainable outputs are listed in the Table 1 of the Annex.

Sustainable Outcomes	Strategy to ensure their sustainability	Resources necessary to achieve this	Where will these resources be obtained?
A pool of new (43.9 ECTS) and updates (65 ECTS) disciplines available through eMARE (including 6 sets of enhanced interactive e-courses)	Disciplines will be accredited according to current regulation in PCs and at HEIs; they will be included to officially accredited or approved curricula of academic programs; they will be advertised to students and also promoted to the relevant faculty as a learning resource as well as a database of "building blocks" for new or updated disciplines. The disciplines will be maintained and updated after the end of the project, as per requirements of accredited programs they are a part of	Staff time of faculty and administrators maintaining and accrediting disciplines from the MARE pool; extra time may be required for a major revision aiming at the maintenance of the state of art in case of faroadly st developments in a field	Maintenance and updating of accredited curriculum contents is a core responsibility of faculty and administrators from HEIs; major revisions may require extra time; depending on the character of the disciplines, the following resources will be explored: tuition fees, crowdsourcing through the SCP, institutional grants or grants provided by Ministries of Environment; Asia-Pacific Network Capability program will be considered for disciplines with a broader Asia-Pacific context
MARE PhD research framework	The framework will be submitted for endorsement by research councils of HEIs and, where relevant, to Ministries of Education and national academies of sciences. In addition, we will request major international scholarly networks to endorse and promote it, such as Earth System Governance, Future Earth, Global Land Project etc. It will be promoted to students and PhD supervisors within MARE network, and also broadly disseminated beyond to ensure acceptance, usability and receive broader feedback for its improvement	The initial waive of endorsement and promotions will be done during the project and will rely on the resources of MARE. Revisions of the framework would be necessary to keep it up to date and to account for changes and the state of art in this dynamic field. This will require staff time of researchers and research administrators in order to collect feedback, revise the framework and agree on revisions, and launch a new waive of endorsement and promotion (if necessary).	The resources for post-project revision, endorsement and promotion will be expected to come as a by-product of other funded actions (research, capacity building) where such an outcome would be appropriate; this is plausible, as long as such a framework appear to be important and appropriate as a minor outcome in a broad range of funded actions. MARE partners will also try to request from such donors as Asia-Pacific Network Capability program funding for an international seminar aiming at the discussion and revision of the framework. Preliminary this is scheduled for the APN call of 2023. The research framework can also be an important discussion items on MARE summer schools after the end of the project.

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2 International research summer schools on MARE key issues (Capo Granitola, Seri Iskander)	Summer schools, as a training and dissemination format, hit multiple targets and therefore HEIs and other academic institutions are interested in running them. It is, therefore, important to make an effort for delivering MARE summer schools that will be extra- successful with international participants to keep the interest of MARE HEIs (and partners outside the formal consortium) in supporting such school after the end of the project. Relying on MARE resources we will design highly interactive research intensive summer schools in 2021-22, and will aim at repeating MARE summer schools every two years afterwards	Summer schools require research and administrators' time at host institutions to prepare, promote and run them, and staff and travel costs for international faculty, and, ideally, also travel support to participants from less developed countries	MARE HEIs will first request institutional support to cover running costs summer schools, and further will apply to non-EU and EU donors to cover this and other costs; this will include DAAD for schools in Germany and Estonia, Central European Initiative for schools in Italy, APN for schools in VN and MY etc
Equipment installed at partner HEIs	Equipment will be installed and included to inventory lists of HEIs that will ensure that maintenance costs will be born by HEIs. Full usability of the equipment is ensured by elaborations with partners on the stage of the preparation of the application, so it is ensured that the requested equipment serves specific purposes in MARE curricula, and is needed by each partner. The equipment will be up-to- date during several years after the end of the project, and its successful use shall guarantee support from HEIs and/or ministries of education for	Maintenance costs and costs of upgrades when necessary	The regular maintenance will be performed by HEIs' ICT staff and covered from running costs of HEIs, as long as the equipment will be accepted and added to inventory lists of HEIs. It is expected that HEIs will be investing to future upgrades, as long as all the equipment items will be in the core of teaching and learning activities at HEIs

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	timely upgrades.		
eMARE e-learning	MARE e-learning will be developed on the request of HEIs, and its essential functions will be subject to maintenance of HEIs' ICT services. Use of MARE e-learning will be supported through the promotion to students and faculty, and through the planned transition of all the MARE HEIs to 100% e-learning-based teaching and learning. MARE e-learning system will be hosted by P12 that pledged to be a hub for	Running costs for the maintenance of software and management of contents and	Responsibilities for content and user management will be distributed between ICT services of MARE partners and funded from their running costs. Hosting of MARE e-learning is committed by P12, as it is recognised as an important item in its
eMARE e-science modules	MARE e-services. MARE e-science modules will be developed on the request of HEIs, and its essential functions will be subject to maintenance of HEIs' ICT services. Use of MARE e-science modules will be supported through the promotion to PhD students and faculty, and through the planned transition of all the MARE HEIs to 100% e-learning-based teaching and learning. MARE e-science modules, the same as other MARE e-services, will be hosted by P12 that pledged to be a hub for MARE e-services.	Running costs for the maintenance of software and management of contents and users, upgrade of software	Responsibilities for content and user management will be distributed between ICT services of MARE partners and funded from their running costs. Hosting of MARE e-services is committed by P12, as it is recognised as an important item in its strategic promotion in the region
2 MARE Sectoral Collaborative Platforms (SCPs)	SCPs in VN and MY will build on open- to-join framework agreements using as much as possible the existing institutional infrastructure. The success	Secretarial and management time (including time for promotions) for SCP management units	SCPs will charge the members proportional fees after a grace (project) period, crowdfund and organise (in cooperation with MARE partners) self-

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	and sustainability of SCPs will be secured through the recruitment of academic, NGO and business members ensuring that as many as possible members sharing the SCPs' agendas and values are ready to support them. During the project lifetime, SCPs will get business plans, where ranges of activities that potentially can ensure their sustainability will be proposed and analysed.		paying activities, e.g. exhibitions, conferences and training events; after the end of the project, SCPs will receive initial organisational support from P5,6, 10 & 12 and free hosting of the MARE portal from P12. This will follow the requests from PC governments to increase HEIs' international visibility and to establish & maintain functional links with the world of profession.
Arrangements for mobility, joint research and shared research and experimental facilities	Such arrangements will be established and run in order to make better use of HEIs' limited resources and help them to achieve their strategic goals and lower costs, and therefore it is expected that all such arrangements will be willingly maintained and further developed; to achieve this, it is also important to demonstrate their usability and utility during the project lifetime, while some support can be secured from the project	Modest secretarial costs to manage paperwork and compliance	Implementation and monitoring of agreements typically represents core work or international and other relevant departments of HEIs, and therefore no additional funds need to be raised. Where possible, HEIs will be requested to provide support with accommodation and/or spending materials for the research equipment; this will be managed case-by- case.
MARE policy-business- academy conference	Business-Academy conference is a highly versatile dissemination format, and therefore HEIs and other academic institutions are generally interested in running them. It is, therefore, important to make an effort for delivering an event that would be successful with national and international participants. Relying on MARE resources we will	Conferences require research and administrators' time at host institutions to prepare, promote and run them, and, ideally, also travel support to participants from less developed countries	HEIs and national agencies funding research and higher education are usually willing to support conferences, especially if they have clear and attractive purpose and agenda, and promise to increase national and international visibility. MARE partners will therefore first request institutional support to cover running costs summer schools, and further will apply to

## Annex: Table1 Sustainable Outcomes

Sustainable Outcomes	Strategy to ensure their sustainability	Resources necessary to achieve this	Where will these resources be obtained?
	design a highly interactive conference in 2023, and will aim at repeating MARE conference every two years afterwards		international donors (such as APN) to cover this and other costs; an application for external funding will be prepared by
			2024 to run a conference in 2025.