16, November 2015 / Danang, Vietnam

Outline of 2nd International Training Program

1. Backgrounds and Objectives

A group of experts from Asian countries and Western communities, in November of 2013, had a meaningful meeting on ecosystem service valuation and its application to marine spatial planning & management. The experts shared experiences on ecosystem service valuation and development of spatial management tools, and discussed how to incorporate the valuation process into spatial planning & management mechanism. It was, in Asian region, the first meeting dealing with ecosystem service valuation and its application to spatial management. All attendants recognized importance of development of sophisticated management tools, and as well capacity building.

In line with capacity building, the 1st training program was organized by Korea Maritime Institute (KMI) in cooperation with PEMSEA, Marine InVEST and PacMARA. 20 trainees participated in the training program from Korea, China, Cambodia, Indonesia Philippines, and enjoyed learning of spatial management tools developed by KMI, Marine InVEST, and PacMARA. Organizers and trainers had encouraged trainees to challenge a development of the tools for their countries. Also, all trainees and experts attended the 2nd International Workshop on Marine Ecosystem Valuation and Spatial Management Tools. Issues were identified in developing the management tools and institutionalizing them in national policy regime. Enhancement of international networking and cooperation was firmly acknowledged as a common base that would contribute to tackling the issues.

KMI and PEMSEA plan to invite experts and practitioners to the 2nd training program on spatial management tools toward creative and viable coastal societies in 2015 EAS Congress. The objective of the 2nd training program is to encompass more experts and practitioners in developing the spatial management tools and galvanizing their application to coastal and marine management of our region.

2. Organizers

- Organizer : Korea Maritime Institute (KMI)
- Co-organizer: Partnerships in Environmental Management for the Seas of East Asia (PEMSEA)

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3. Venue and Dates

Venue : Danang City, VietnamDates : November 16, 2015

4. Expected participants:

- 25 persons from ICM Learning Centers and Practitioners of member states/entities of PEMSEA
- Requirements for desirable outcome: beginner level knowledge on TEEB (The Economics of Ecosystems and Biodiversity) & spatial planning, beginner level skill on GIS tools (e.g. ArcGIS, QGIS)

5. Financial support for invited instructors

 Round-trip airfare, accommodations, and meals during his/her stay will be covered by Korea Maritime Institute.

6. Main Contents

Participants would share marine assessment and its application tools for spatial planning & management, "MAPS" and "Marine InVEST". The former has been developed and operated by the Korea Maritime Institute, comprising MSA & SEV, and the latter by the Natural Capital Project Team. Participants are expected to learn how to use the assessment and tools through Korea's cases, and get lessons and implications for their countries' spatial management.

- MAPS (Marine Assessment and Planning Support system)
 - ✓ MSA (Marine Suitability Assessment)
 - ✓ SEV (Spatial Ecosystem Valuation; Biophysical approach to the valuation)
- Marine InVEST (Marine Integration Valuation of Ecosystem Services and Tradeoffs)_

Provisional Program

Time	Activity/Presentation	Suggested presenters		
Introduction of 2 nd Training Program				
08:30 - 08:50	Opening Ceremony			
	Opening Remarks (KMI)			
	Welcoming Remarks (PEMSEA)			
	Congratulatory Remarks (MOF, Korea			

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	 Congratulatory Remarks (KOEM, Korea) 	
08:50-09:00	Introduction to the program	Dr. Jungho Nam
	 Backgrounds and Objectives 	
	Overview of the course	
	Expected outputs	
Course 1: MAPS-MSA		
09:00 - 10:30	 Korea's legal& institutional arrangement for Coastal & Marine Spatial Planning and Management Overview of major steps in MSA application MSP boundary delineation and grid-determination Identification of issues/socio-economic activities Identification of data/information availability Data/information determination for processing at ArcGIS Data/information preparation for Suitability Assessment at ArcGIS Weighting factor determination of each data /information item Display of suitability assessment of each item at ArcGIS Merging of individual assessment layers at ArcGIS Display of summed-up assessment at each grid at ArcGIS Potential application: zoning, EIA, locating/designation of marine uses etc 	Dr. Jungho Nam
	Note:	
	1. At this program, trainees will share MSA	
	application in Gyeonggi bay of Korea	
	2. 5 experts are required to apply MSA, in fields of	
	GIS, marine science, policy analysis, spatial	
10:00 11:00	planning & socio-economic analysis	
10:00 - 11:00	Refreshment	
Course 2: MAPS-SEV	Econystom comics valuation and ENACROY	T - • - ·
11:00 - 12:30	 Ecosystem service valuation and EMERGY as a biophysical approach in TEEB 	Prof. Daeseok Kang
	Overview of major steps in ESV application	
	- Overview of major steps in L3v application	

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	 MSP boundary delineation and grid-determination Identification of issues/socio-economic activities Identification of data/information availability Data/information determination for processing at Arc-GIS Data/information preparation for ecosystem service valuation at Arc-GIS Display of EMERGY evaluation of each data/information Display of ecosystem service values of 	
	 individual data/information at ArcGIS Merging of individual value layers at ArcGIS Display of summed-up value at each grid at 	
	ArcGIS Potential application : zoning, trade-offs,	
	locating/ designation of marine uses etc	
	Note:	
	At this program, trainees will share SEV-MAPS application in Gyeonggi bay of Korea	
	2. 5 experts are required to apply MSA, in fields of GIS, marine science(esp. ecosystem), policy analysis, spatial planning & socio-economic analysis	
12:30 - 14:00	Lunch	
Course 3: Marine InVEST		
14:00 - 15:30	 Introduction to the Natural Capital Approach Marine Spatial Planning using InVEST Models Coastal zone management in Belize Firehose introduction of three InVEST Models used in Belize application 	Dr. Choong-Ki Kim
	InVEST applications for Jeju Island, Korea	
15:30-16:00	 Wrap-up Introduction to 3rd training program Closing of the 2nd program 	Dr. Jungho Nam