



**Asia-Pacific
Economic Cooperation**

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Agenda Item: IV B

Integrated Coastal Management in East Asia

Purpose: Information
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APEC
PHILIPPINES
2 0 1 5

5th Oceans and Fisheries Working Group Meeting
Boracay, Philippines
10-12 May 2015



Partnerships in
Environmental Management
for the Seas of East Asia

Integrated Coastal Management in East Asia

Asia-Pacific Economic Cooperation

5th Meeting of the Ocean and Fisheries Working Group (OFWG)

May 10, 2015

Crown Regency Resort and Convention Centre, Station 2, Boracay Island, Philippines

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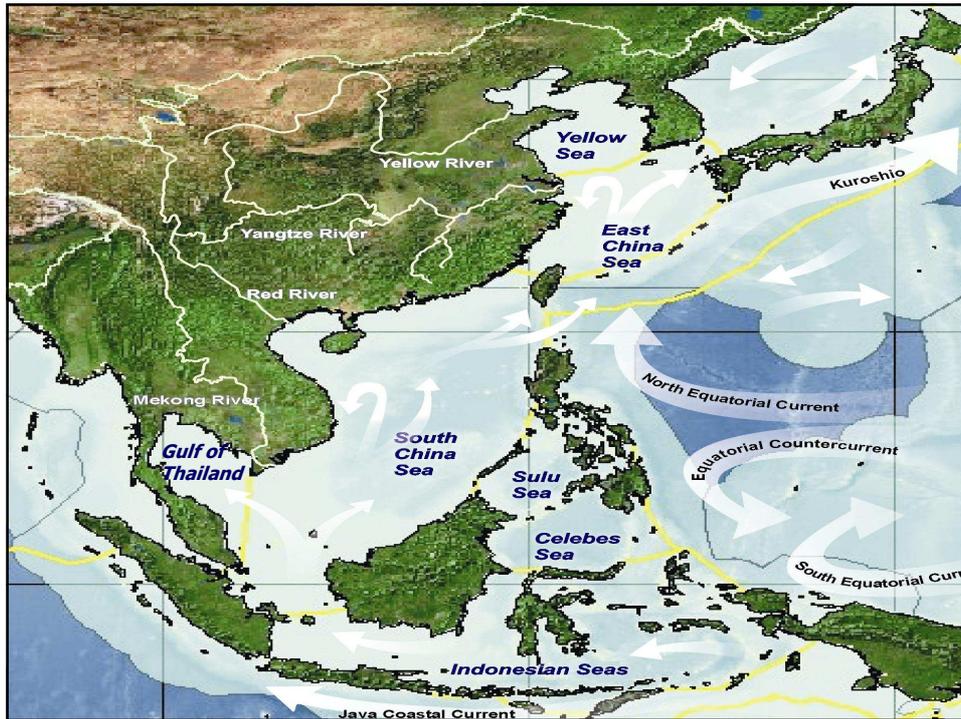
Partnerships in Environmental Management
for the Seas of East Asia

PEMSEA'S Mission

**Fostering and sustaining healthy and
resilient coasts and oceans, communities
and economies across the Seas of East
Asia through integrated management
solutions and partnerships**



Partnerships in Environmental Management
for the Seas of East Asia



PEMSEA's Evolution

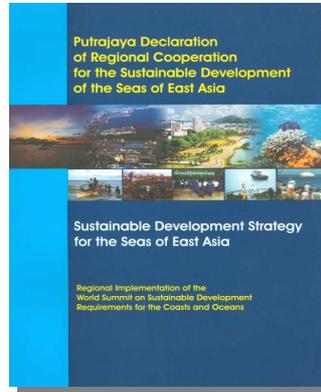
- **1993** - PEMSEA start-up; focus on marine pollution prevention and management; ICM demonstration (Xiamen, PR China; Batangas Bay, Philippines)
- **2003** –14 countries adopt the Sustainable Development Strategy for the Seas of East Asia (SDS-SEA)
- **2006** –11 countries agree to establish PEMSEA as a self-sustaining regional partnership mechanism for SDS-SEA implementation
- **2009** -PEMSEA's International Legal Personality recognized by 8 countries, including Philippines, the host country
- **2012** -Headquarters Agreement signed by PEMSEA and the Department of Foreign Affairs of the Philippines

Sustainable Development Strategy for the Seas of East Asia

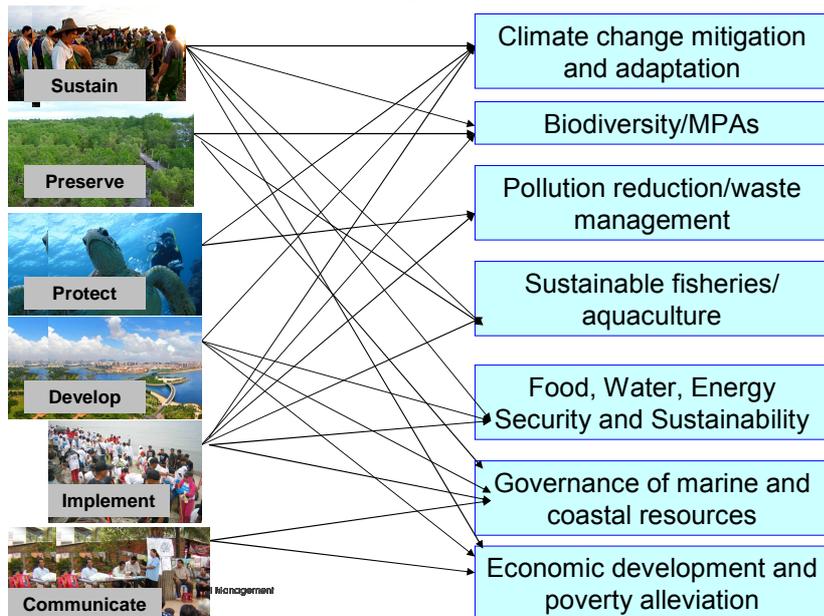
- Regional declaration of commitment to implement a shared vision, adopted by 14 countries
- Harmonizes global and regional agreements including UNCLOS, Agenda 21, WSSD, MDG, CBD, ICCO, The Future We Want, etc.
- Supports sustainable development for economic prosperity and social well-being while safeguarding ecological values

Objectives:

1. Promotion of sustainable development of coastal and marine areas
2. Integrated coastal management (ICM) as an effective management framework
3. Partnerships in sustainable financing and environmental investments



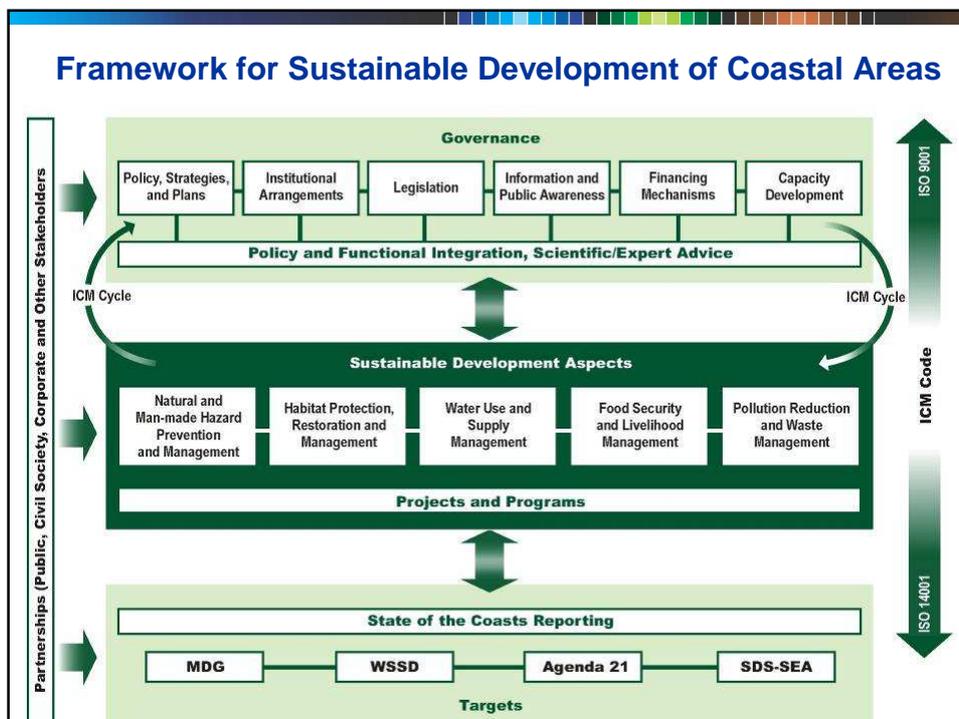
SDS-SEA vision, mission and action programs are essential to the region's greatest challenges



Creating Enabling Conditions through the ICM Cycle



Framework for Sustainable Development of Coastal Areas



ICM in Bataan, Philippines

- Effort to reduce multiple resource-use conflicts and harmonize economic development and environmental sustainability
- Habitat and biodiversity conservation and management initiatives have led to the planting of 45 hectares of mangroves
- Annual cleanup of roughly 156 km of coastline (83%) of the province
- Establishment of bird and fish sanctuaries and deployment of 600 units of artificial reefs by members of the Bataan Coastal Care Foundation (BCCF)



Public-Private Partnership supporting ICM

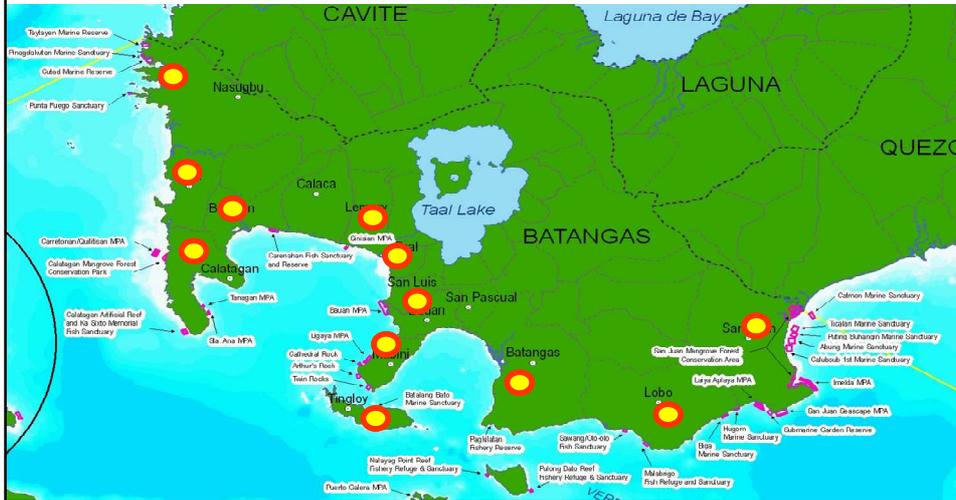
“The BCCF aims to act as a catalyst and provide counterpart funding for the Bataan Integrated Coastal Management Program to build better coastal governance, explore ways for a dynamic & sustainable public-private partnerships in environmental management, increase awareness, and promote community participation in coastal resources management.”



Bataan Coastal Care Foundation, Inc.



Batangas, Philippines: MPA Network



- 42 Marine Protected Areas covering an area of 2,076 ha
- Ecosystems protected: coral reef/seagrass: 1,509 ha and mangroves: 567 ha
- Institutionalized the Batangas Recognition Awards for Verde Passage's Outstanding (BRAVO) MPAs

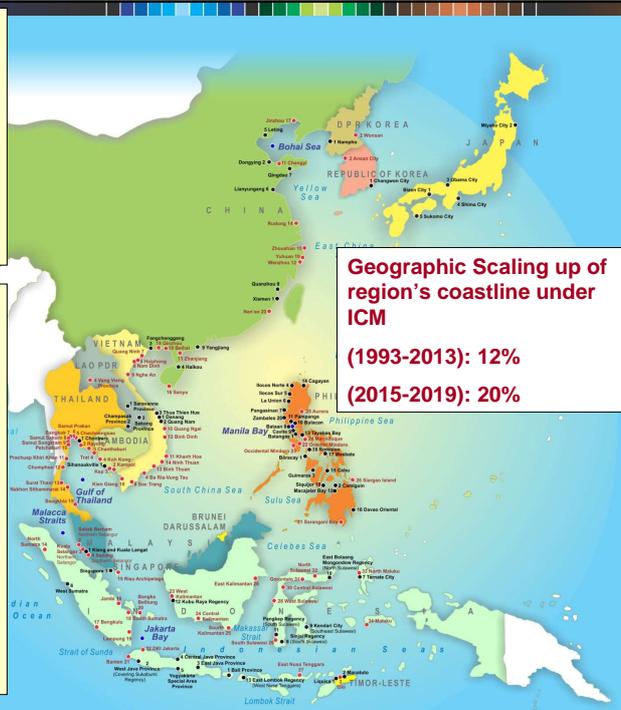
1993:
2 ICM sites (2 countries)
Total coastline: 286 km
Total population: 2.9 million
Watershed area: 3,026 km²
Focus: marine pollution prevention and management

2013:
35 ICM sites (12 countries)
Total coastline: 27,588 km
Total population: 146.8 million
Watershed area: 331,546 km²
Focus: coastal and ocean governance, habitat restoration and management/MPAs, climate change adaptation/disaster risk reduction, sustainable fisheries, alternative livelihoods, integrated river basin and coastal area management

Geographic Scaling up of region's coastline under ICM

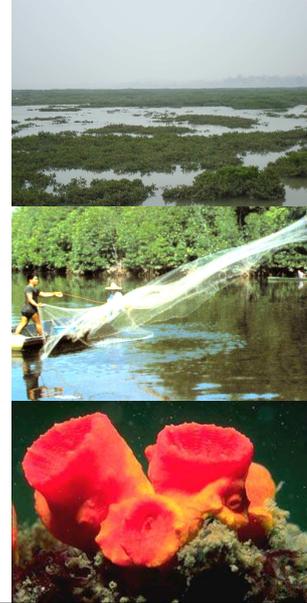
(1993-2013): 12%

(2015-2019): 20%



Functional Scaling Up of ICM Programs: Protecting and enhancing ecosystem services for biodiversity and fisheries (2015-2019)

- Biodiversity and fisheries priority areas (KBAs)
- Policy and program development and implementation
- Strengthening management effectiveness of MPAs and MPA networks through ICM
- MSP, EAFM, etc.
- Alternative/supplemental livelihoods
- Socio-economic benefits assessment
- Financing mechanisms (blue carbon)



Functional Scaling Up of ICM Programs: Climate Change and Disaster Risk Reduction and Management (2015-2019)

- Risk and vulnerability assessment
- Hazard mapping
- Macro-scale land- and sea-use zoning
- Sustainable coastal development planning (hard and soft engineering solutions)
- Socio-economic assessment and adaptation strategies
- Disaster preparedness and response plan
- Early warning systems
- Designation of safe areas/routes safety
- Post-event recovery

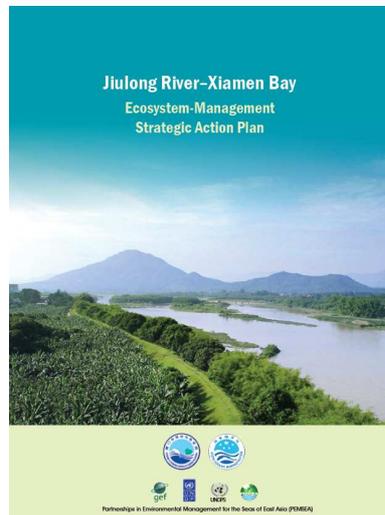


Table 5. Areas around Manila Bay to be affected by 1 m and 2 m SLR.

Area	Areas Affected (Ha)	Areas Affected (1 m SLR) (Ha)	Percentage	Areas Affected (2 m SLR) (Ha)	Percentage
Metro Manila	59,583,11338	5,374,99831	9.02	7,866,65644	13.20
Cavite	56,392,87218	1,608,96189	2.85	2,701,01703	4.79
Bulacan	67,631,40549	22,691,40857	33.55	27,967,61012	41.35
Pampanga	143,961,5744	30,115,33937	20.92	41,594,57421	28.89
Bataan	288,928,4713	37,959,70203	13.14	51,651,1150	17.88

Functional Scaling Up of ICM Programs: Water supply, pollution reduction and waste management in priority watersheds and coastal areas (2015-2019)

- Ecosystem management framework for trans-jurisdictional environmental issues in priority watersheds and coastal areas
- Upstream-downstream management interventions
- TAPL and socio-economic impacts and benefits
- Nutrient management (point and non-point sources)
- Good policies and practices in investment and financing



Functional Scaling up of ICM Programs: Building a Blue Economy through ICM (2015-2019)

Investible Opportunities at ICM sites:

- sustainable fisheries/aquaculture
- sustainable tourism
- biodiversity conservation/biotechnology
- integrated river basin and coastal area management
- pollution reduction/waste management
- water supply and conservation
- renewable energy/energy conservation/resource utilization



Challenges to Building a Blue Economy

- Lack of working examples blue economy development, demonstration and benefits derived
- Skills and know-how are limited considering the scope, coverage and potential targets at the local level where the changes need to take place



PEMSEA Services

PEMSEA delivers integrated solutions to its partners and customers through a set of service offerings designed to support the needs of governments, companies and other organizations operating in the coastal and marine environment

Advisory and Project Services

PEMSEA provides strategic planning, policy development and project services tailored for coasts and oceans

- Environmental Management
- Marine Scientific Services
- Food Security and Livelihood Management
- Pollution Reduction and Waste Management
- Water Use and Supply Management
- Natural and Man-made Hazard Prevention and Management
- Habitat Protection, Restoration and Management

PEMSEA Services

Knowledge Services

Comprehensive set of knowledge products and capacity development programs focused on integrated coastal management (ICM) and port safety, health and environmental management (PSHEM)

- Extensive collection of coastal and ocean governance publications
- Best practices, codes and guidelines for governance, management and State of Coasts reporting
- National and regional training workshops on a variety of topics including
 - Integrated coastal management
 - Coastal-use zoning
 - Marine spatial planning
 - Vulnerability/risk assessment
 - Ecosystem service valuation
 - Ecosystem approach to fisheries management
 - Integrated river basin and coastal area management
- Internships, fellowships, training-of-trainers and study tour programs

PEMSEA Services

Certification Services

PEMSEA offers two certification systems for organizations looking to institute a recognized standard in coastal management, along with a professional certification for ICM practitioners

- Port safety, health and environmental management (PSHEM) system certification
- Integrated coastal management (ICM) system certification
- Integrated coastal management (ICM) professional certification

Facilitation and Secretariat Services

PEMSEA's experience convening and developing partnerships extends into a set of Facilitation and Secretarial Services

- Expert staff conducts workshops, seminars and round tables at high-impact events like the East Asian Seas Congress and Xiamen World Ocean Week

PEMSEA's Regional Network

PEMSEA Network of Local Governments (PNLG)

- Network of 39 local governments from across East Asia
- Designed to enhance the capacity of local governments to plan, develop and manage their coastal and marine resources for sustainable use
- Promotes the use and benefits of ICM and facilitates links to technical institutions, companies and investors for scaling up sustainable development



East Asian Seas Sustainable Business Network

- Network of companies focused on building a Blue Economy through sustainable use of coasts and oceans
- Practical forum for business leaders to engage in dialogue with peers and link to scientific and management best practice, in alignment with ocean policy development in the region



PEMSEA's Regional Network

PEMSEA's network includes 20 nongovernmental organizations working together to support implementation of the SDS-SEA

- ASEAN Centre for Biodiversity
- Coastal Management Center
- Conservation International Philippines
- International Environmental Management of Enclosed Coastal Seas Center
- International Ocean Institute
- Intergovernmental Oceanographic Commission - Subcommission for the Western Pacific
- International Union for Conservation of Nature - Asia Regional Office
- Korea Environment Institute
- Korea Maritime Institute
- Korea Marine Environment Management Corporation
- Korea Institute of Ocean Science and Technology
- Northwest Pacific Action Plan
- Ocean Policy and Research Foundation
- Oil Spill Response
- Plymouth Marine Laboratory
- Swedish Environmental Secretariat for Asia
- UNDP/GEF Small Grants Programme
- UNEP Global Programme of Action
- UNDP/GEF Yellow Sea LME Project

PEMSEA's Regional Network

Over its 20-year history, PEMSEA has developed a broad network of experts across the region, providing a deep pool of knowledge and practical experience in deploying integrated coastal management

Regional Centers of Excellence

- Centre for Marine Environmental Research and Innovative Technology (MERIT), Hong Kong
- University of the Philippines Marine Science Institute (UPMSI)

ICM Learning Centers

- Royal University of Phnom Penh
- Coastal and Ocean Management Institute (COMI), Xiamen University
- Center for Coastal and Marine Resource Studies, Bogor Agricultural University
- Xavier University
- De La Salle University
- University of the Philippines, Los Baños
- University of Danang
- Kim Il Sung University

East Asian Seas Congress 2015

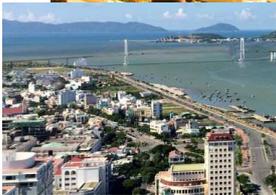
November 16-21, Danang, Vietnam

•Triennial event for oceans and coasts. Past Congresses have drawn well over 1000 participants including national and local government officials, policymakers, scientists, NGOs, donor agencies, companies, investors and academia.

•Provides an intellectual marketplace and ocean-based forum for knowledge sharing, collaboration and partnership building.

•Includes Ministerial Forum, International Conference, Environmental Exhibition, Youth Forum, Field Visits and sessions covering *Coastal and Ocean Governance, Blue Economy, Public-Private Partnership, Coastal Ecosystem Valuation, Marine Spatial Planning, and more.*

For more information, visit eascongress.pemsea.org



Areas of Potential Collaboration with APEC WG

- Organization and conduct of APEC/PEMSEA workshop/knowledge sharing event on the application of ICM for sustainable oceans and fisheries management
- Preparation and dissemination of knowledge products (case studies; good practices; code; guidelines; learning materials) for sustainable fisheries through ICM
- Establishment of 'blue economy' focused ICM demonstration/learning sites among local governments across APEC economies
- Networking among EAS and APEC local governments

Questions?

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