

Annex 9

An Example of Implementation of a Comprehensive Set of Performance Indicators (Chua, 1998)¹

¹ Chua, T.E. 1998. Lessons Learned from Practicing Integrated Coastal Management in Southeast Asia. *Ambio*. Vol. 27(8): 599-609.

ICM Performance Assessment
Site: DANANG

Indicators	Danang	Background Information
I. Problem Identification and Program Formulation		
Environmental profile prepared (1); problems identified and prioritized (1); management boundary defined (1)	3	<ul style="list-style-type: none"> Inception workshop conducted, June 2000 Environmental profile prepared, September 2000
Program planning undertaken (1), stakeholder consulted (1)	2	<ul style="list-style-type: none"> Stakeholders consultation workshop held, June 2000
Primary data related to program formulation gathered (1)	1	<ul style="list-style-type: none"> Data gathered for IIMS, risk assessment and coastal strategy
Public awareness created (1)	1	<ul style="list-style-type: none"> ICM project newsletter published and disseminated, December 2000, May, June, October and December 2001, April, September, October and December 2002 Action plan on beach clean up submitted, July 2001 Action plan on waste segregation submitted, August 2001 Flyers on waste segregation published and disseminated, August 2001, May and June 2002 Posters on beach clean up published and disseminated, August 2002, May and June 2002 Flyers on ISO 14001 published and disseminated, September 2001 Communication plan completed and revised, December 2001 Regular contribution to PEMSEA E-Updates – March, June, September & December 2000; January, February, March, April, May & October 2001; January, July, August and December 2002
EIA/risk assessment performed (1)	1	<ul style="list-style-type: none"> Risk assessment team established, September 2001 Training workshop conducted, December 2001 Preliminary risk assessment report submitted, January 2002 Final draft IRA submitted, January 2003
Strategic management plan formulated/ 1) and adopted (1)	2	<ul style="list-style-type: none"> Coastal strategy completed, November 2001 Coastal strategy adopted by the People's Committee, December 2001 Declaration for coastal strategy implementation, June 2002
Issue or special area plan developed (1) and adopted (1)	0	
Organizational (1) and legal (1) arrangements proposed	0	
Financial options developed (1)	0	
Environmental monitoring protocol developed (1)	0	

Information management system established (1)	1	<ul style="list-style-type: none"> • IIMS Guide and User's Manual prepared and distributed, February 2001 • IIMS installed and operationalized, July 2001 • Assessment report on site capacities submitted, November 2001 • Data encoded in IIMS submitted, November 2002 • Report on application of IIMS and GIS for generation of data, tables, graphs and maps submitted, November 2002 • Final report on establishment of IIMS/GIS and plan for updating and maintenance submitted, January 2003
II. Program Implementation		
Interagency, intersectoral council/committee/group established (1)	1	<ul style="list-style-type: none"> • Project Coordinating Committee established, July 2000 • Communicators Network established, November 2000 • Green Productivity Group established, May(?) 02 • PPP Task Force for environmental investments established, June 2002 • Multisectoral committee on the development and implementation of coastal use zoning established, October 2002
Coordinating agency/office for program implementation established (1)	1	<ul style="list-style-type: none"> • Project Management Office established, August 2000
Capacity (1) and information generating arrangements established (1)	2	<p>Regional Training</p> <ul style="list-style-type: none"> • Regional training course on the development, implementation and management of coastal and marine environmental projects, April 2000 & October 2001, Manila, Philippines • Regional training course on OPRC level 2 for supervisors/on-scene commanders, October 2000, Singapore • Regional training course on environmental impact assessment for coastal and marine areas, December 2000, Hong Kong • Regional training on integrated coastal management, November 2001, Manila, Philippines & Xiamen, PR China • Regional training on environmental risk assessment, July 2000, Manila, Philippines • Regional training workshop on the development and implementation of coastal use zoning and institutional framework, August 2002, Manila, Philippines <p>Site Training</p> <ul style="list-style-type: none"> • Training on coastal strategy development, February 2001 • IIMS Training, February 2001 • Workshop on public awareness and planning for

		<p>ICM, April 2001</p> <ul style="list-style-type: none"> • Training on risk assessment and management, December 2001 • Training workshop on public perception and willingness to pay using CVM, July 2002 • Training for project task team and multisectoral committee on the development and implementation of coastal use zoning, October 2002 <p>Internship at RPO</p> <ul style="list-style-type: none"> • Pham Thi Chin, May-November 2002 <p>Information generating arrangements</p> <ul style="list-style-type: none"> • Information sharing on risk assessment • Information sharing on IIMS • Information sharing through the Communicators Network • Information sharing through the Multisectoral Committee in-charge of zoning
Prioritized agenda for management action undertaken (1)	1	<ul style="list-style-type: none"> • Coastal strategy adopted, December 2001
Financial mechanism for program implementation established (1)	0	
Environmental monitoring mechanism established (1) and operational (1)	0	
Concerned ordinance/legislation developed (1) and approved (1)	0	
Law enforcement mechanism established (1)	0	
Program monitoring and evaluation protocols developed (1) and implemented (1)	2	<ul style="list-style-type: none"> • Monthly reports submitted, July 2000-February 2003 • Quarterly reports submitted, January 2000 – December 2002 • PCC meetings held, June & October 2000, April and August 2001, January & December 2002 to discuss project implementation
III. Program Sustainability		
Perception and attitude changes among stakeholders detected (1)	1	<ul style="list-style-type: none"> • Participation in study tours and RNLG Forum • Participation in PA activities
Critical mass of local/national officials knowledgeable about ICM formed (1)	1	<ul style="list-style-type: none"> • Participation in trainings, study tours and RNLG Forum
Major stakeholders participated in program implementation (1)	1	<ul style="list-style-type: none"> • Stakeholder consultation, January 2000 • Communication planning and survey on public awareness and participation, April 2001 • Stakeholders consultation on waste segregation and beach clean up, August 2001 • Waste segregation campaign and beach clean up, mid-2001 to 2002 • Coastal strategy development, February-November 2001

		<ul style="list-style-type: none"> • Coastal strategy declaration, June 2002 • Public consultation on environmental investments, May-June 2002 • Contingent valuation survey, July-August 2002
Human and financial resources by government and stakeholders for continuation of program committed (1)	0	
Continue implementation of prioritized agenda of the action plan committed by local government (1)	0	
Integration of ICM program into local government environmental management and sustainable development framework undertaken (1)	0	
IV. Program's Impacts		
Environmental quality shows sign of improvement (1)	1	<ul style="list-style-type: none"> • Cleaner beaches • Proper handling of waste in coordination with URENCO, the local waste management authority
Some environmental degradation arrested (1)	0	
Interagency conflicts reduced or resolved (1)	1	<ul style="list-style-type: none"> • Through the establishments of interagency, intersectoral council/committee/groups and ICM Project Coordinating Mechanism
Use conflicts minimized or resolved (1)	0	
Evidence of ecological improvement (1)	0	
Evidence of socioeconomic benefits (1)	0	
Additional financial support from national government/ External sources (1)	0	
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Note: numbers in parentheses represent scores