

Integrated Coastal Management



the SEQ Healthy Waterways Partnership (http://www.healthywaterways.org)

Integrated Coastal Management



Origin of Sectorial Management and its Development in Japan Democracies by Meiji Restoration and Development (since 1868)

- Regulatory Laws for Industrial ocean use
 - ► Water Pollution Control Act (1970)
 - ► Basic Environment Act (1993)
 - Environment Impact Assessment Law (1997)
 - ▶ Ports and Harbors Act: Port Plan (Strategic EIA)
 - Electricity Business Act: Special Provisions Concerning Environmental Impact Assessment
 - Seto Inland Sea environmental conservation special measures law (1973)
 - Ariake Yatsushiro environmental conservation special measures law (2002)

Kisugi (2015)

Implementation of ICM and its Development in Japan Seto Inland Sea environmental conservation special measures law

- As Forerunner: It is environmental conservation oriented, but it had foresight on ICM concepts
- As of Coastal Law, it is only set priority area of measures namely 50 m in ward and out ward from shoreline, while the Law objectives were extended for protection, use and conservation of environment in a historic revision in 1999.



Population density of each prefecture in the watershed area of the Seto Inland Sea (Yanagi, 2015)

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Integrated Coastal ManagementPolicy Proposal for ICM Implementation in 2015

	General Proposal	
和岸城総合管理の推進に関する政策優合	Implementation and supporting mechanisms are urgent needs. <i>Proposal 1.</i>	
	Local governments <i>should implement ICI</i>	1
	Proposal 2.	
	National governments should supports	
968 27 W L R MAR 1975 1975	Proposal 3.	
	Sea area into local gov.'s jurisdiction	
	1	.7

Integrated Coastal Management • Policy Proposal for ICM Implementation in 2015 Situation U Understanding 沿岸域総合管理の推進に関する政策修測 Check and Consensus COLUMN 2 COLUMN DAMAGE Building Action **ICM** Implemen Planning -tation

ICM Model Sites Progress



Integrated Coastal Management

• Five Steps for ICM Implementation (1/5 Situation Understanding)



Diagnosis by Smooth Material Cycling and Stability of Ecosystems (Bio Diversity)

Situation Understanding (Ocean Health Check)

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Ocean Health Check

- Ecosystem sustainability and Smooth Material Cycling as indicator of Richness of the Sea
- 1st Diagnosis: Easy and Fast check for the status





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• Five Steps for ICM Implementation (2/5 Consensus Building)



Situation Understanding (Ocean Health Check)

Restructuring the ICM Committee in Shima City



Integrated Coastal Management • Five Steps for ICM Implementation (3/5 ICM Planning) Obama City ICM Basic Plan (2015-2020) • Preamble • Scope • Basic Principles • Vision and Directions • Projects • Implementation • Institutional Arrangements

Situation Understanding (Ocean Health Check)

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Eel grass Habitation



Establishment of Committee in Bizen City



For the better promotion of Local Coastal Communities

ICM Formulations

Network of Local Governments



Lesson 2: Net Work of People

- Establishment of Coastal / Ocean Governance
- Management / Implementation
 - Situation Understanding
 - Consensus Building with Public Participation
 - ICM Planning
 - Adaptive Management of Implementation
- PDCA Cycle



Integration and Cooperation

Why we need Integrated Coastal Management Now?

- Change of environment is a long-term process based on accumulation of short-term activity (social and Natural).
- Dominant processes are multi disciplinary.
 - Interpretation of physical processes for biological and chemical processes is required
 - Most biggest dominant processes are human activities
 - Social activities reflects on natural processes
- o There is uncertainty in scenarios.
 - Strategic planning of counter measure are required
 - Integration of planning, monitoring and feedback

Not only Natural Science, but also Social Science and Engineering is required!

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What can we do for the next generation?

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Thank you for your considerations !