



GEF LME:LEARN

GEF Large Marine
Ecosystems Learning
Exchange and Resource
Network

MARINE TOOLKITS

ENHANCING SCIENCE
AND MANAGEMENT
EFFECTIVENESS FOR
LARGE MARINE
ECOSYSTEMS





The GEF Large Marine Ecosystems Learning Exchange and Resource Network (LME:LEARN)

The GEF LME:LEARN project seeks to improve global ecosystem-based governance of Large Marine Ecosystems (LME) and their coasts by generating knowledge, building capacity, harnessing public and private partners to participate in ocean governance and supporting south-to-south and north-to-south learning.

GEF LME:LEARN aims to reach a variety of GEF marine and coastal stakeholders including project managers, international and local project staff, government officials, implementing agency staff, non-governmental organizations, business community and others.

This global project is funded by the Global Environmental Facility (GEF), implemented by the United Nations Development Programme (UNDP), and executed by the Intergovernmental Oceanographic Commission (IOC) of UNESCO.

For further information about the provided services, please contact the Project Coordination Unit (PCU) at info@iwlearn.org

www.iwlearn.net/marine
www.iwlearn.net/manuals



WHAT ARE MARINE TOOLKITS?

The GEF LME:LEARN series of Marine Toolkits were developed to assist GEF funded projects, and others, working in marine related focal areas to improve their capacity to effectively prepare and manage their respective projects. These Marine Toolkits are targeted knowledge sharing and programmatic guidance products to support GEF Large Marine Ecosystems (LME) projects, as well as other GEF Intercoastal Management (ICM), Marine Protected Area (MPA) and Marine Spatial Planning (MSP) projects.

These Marine Toolkits address emerging priorities and new requirements for GEF marine and coastal projects and promote innovative approaches captured by harvesting and codifying experiences, best practices and lessons learned from the existing GEF LME, ICM, MPAs and MSP projects.

All the toolkits were developed as a combination of both publication and online-interactive products, which when taken together, present hundreds of tools, including actual situations from all over the world where these tools have been successfully used. In addition, each marine Toolkit includes numerous references, most of them available online for those who want to gain deeper knowledge into specific tools.



WHAT IS THE PURPOSE OF MARINE TOOLKITS?

The purpose of the Marine Toolkits is to enhance the effective management of LMEs and help incorporate ICM, MPAs, MSP and ocean and coastal climate change adaptation projects. The Marine Toolkits are also reference points, which provide quick access to practical information on a number of methodologies and tools relevant for management of LMEs and their coasts.

WHO ARE THE MARINE TOOLKITS FOR?

These Toolkits are available for use by LME, MPA, MSP and ICM practitioners, decision makers and for anyone interested in adopting better practices for the science and governance of Large Marine Ecosystems and their coasts.



HOW SHOULD YOU USE THE MARINE TOOLKITS AND PLATFORM?



The Marine Toolkits have been developed as both an interactive online and downloadable PDF resource. The online products are available on the Marine Toolkit Platform, which can be found at www.iwlearn.net/manuals.

These Marine Toolkits cover a wide range of themes that are of interest to LME and other marine managers. Each Toolkit is also a self-standing document, which covers its topic at the level of detail needed by its target audience. However, each section of the Toolkit describes a distinct method that is potentially relevant to management of LME/MPA/ICM/MSP/climate change adaptation projects. Users can move sequentially through each Toolkit or go directly to the sections that are relevant to their needs.

The Toolkits were developed to be an integrated product. Links between each topic are purposefully highlighted so that users can easily navigate between sections to find appropriate solutions and tools to address their challenges.

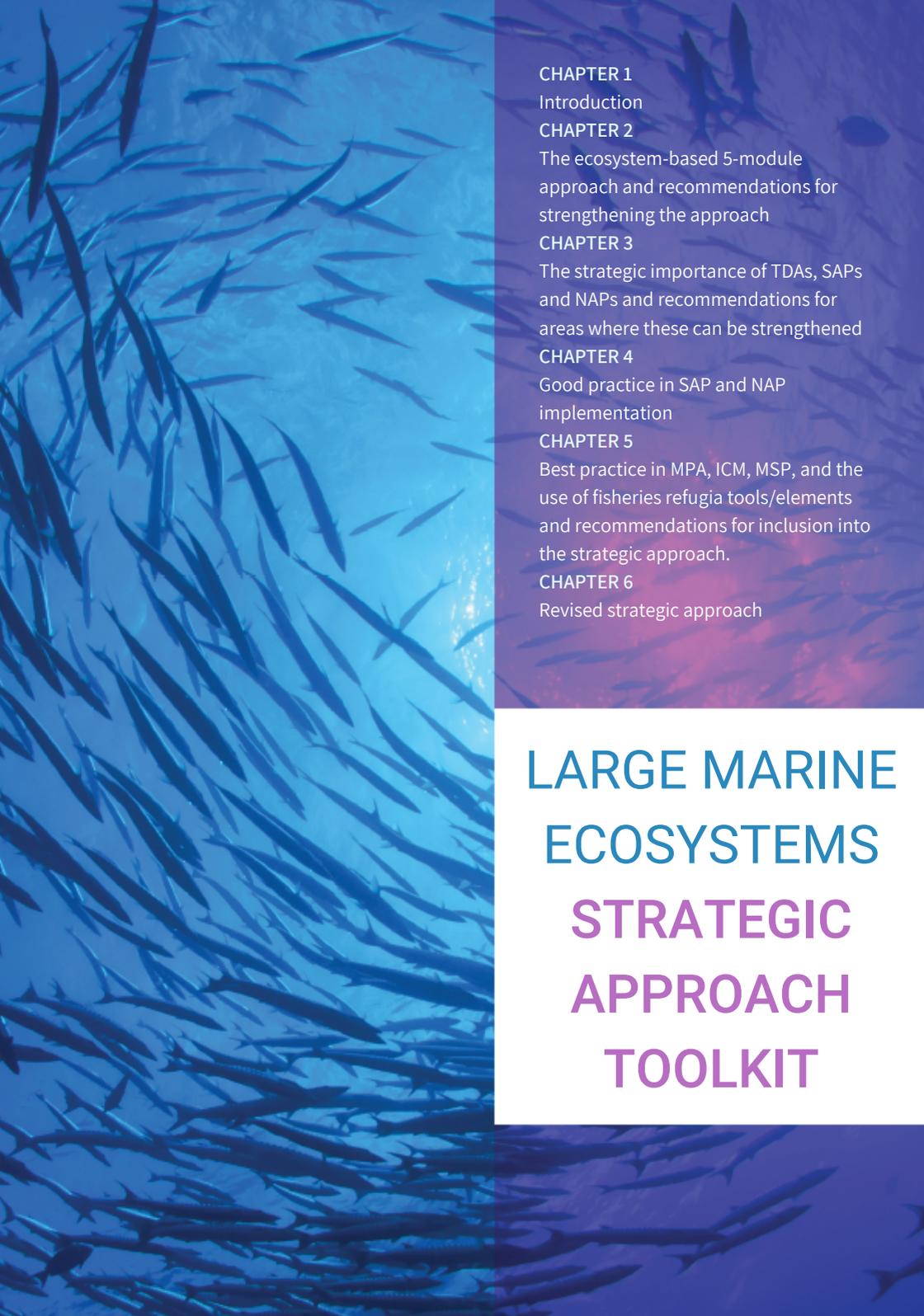
PDF >> Environmental Economics for Large Marine Ecosystem management Toolkit (Chapter 6. Economic policy instruments)

WEB Governance Toolkit, Section 3

Throughout each Toolkit, links are also made to other useful resources. Every Toolkit can and should be used alongside these other resources.

→ The Basics of Designing & Facilitating Meetings

Finally, each Toolkit contains an extensive “List of References”. Most of the references are already uploaded in the GEF IW: LEARN repository of Documents, and each available reference in the List can be opened by clicking on it.



CHAPTER 1

Introduction

CHAPTER 2

The ecosystem-based 5-module approach and recommendations for strengthening the approach

CHAPTER 3

The strategic importance of TDAs, SAPs and NAPs and recommendations for areas where these can be strengthened

CHAPTER 4

Good practice in SAP and NAP implementation

CHAPTER 5

Best practice in MPA, ICM, MSP, and the use of fisheries refugia tools/elements and recommendations for inclusion into the strategic approach.

CHAPTER 6

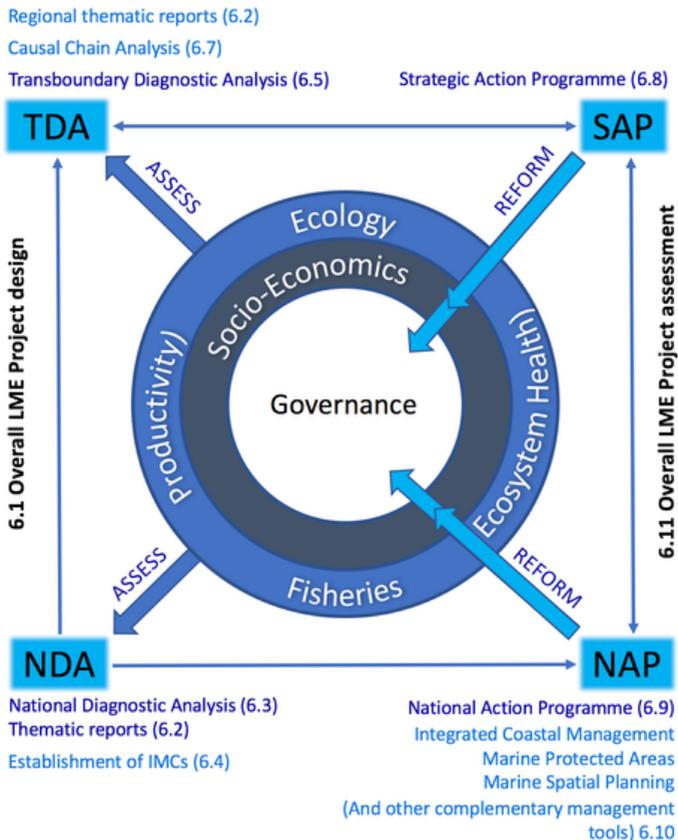
Revised strategic approach

**LARGE MARINE
ECOSYSTEMS
STRATEGIC
APPROACH
TOOLKIT**

The Large Marine Ecosystem Strategic Approach Toolkit collates years of accumulated knowledge resulting in a strategic approach to developing future LME projects. The Toolkit describes:

- the revised strategic approach to designing an LME project,
- incorporating an updated 5-module ecosystem approach,
- the TDA/SAP process,
- complementary tools such as ICM, MSP, the Ecosystem Based Approach to Fisheries across multiple scales, the development of MPA networks and fisheries refugia, and climate change concerns.

This toolkit will assist LME practitioners, large-scale marine and coastal management project specialists, LME technical advisors and others developing GEF or non-GEF national or multinational marine and coastal projects.



An underwater scene showing a school of striped fish swimming over a coral reef. Sunlight rays penetrate the water from the surface, creating a bright, clear environment. The fish are primarily silver with yellow and blue stripes. The coral is diverse and colorful, including various species of hard coral.

CHAPTER 1

Introduction

CHAPTER 2

Good Governance: Reflecting norms, principles, and values

CHAPTER 3

Policy and Legal Frameworks

CHAPTER 4

Regional Ocean Governance

CHAPTER 5

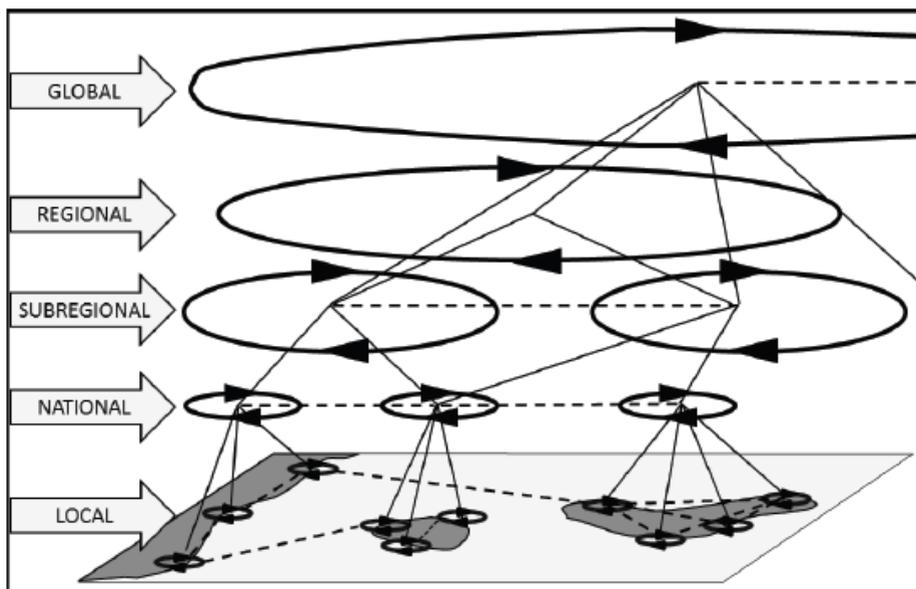
Effective Governance: Achieving Our Goals

LARGE MARINE ECOSYSTEMS GOVERNANCE TOOLKIT

The Large Marine Ecosystem Governance Toolkit provides an introduction to governance concepts relevant for LME, MPA, ICM, and MSP practitioners and other project partners. The Toolkit aims to offer the GEF Large Marine Ecosystem project leads and other partners a practical resource on governance approaches and lessons learned from previous projects and other initiatives. It aims to promote an integrated, collaborative approach to ocean and coastal management.

The Toolkit provides descriptions, illustrative examples, tools and other helpful links for analysing and strengthening Large Marine Ecosystem governance frameworks. It covers topics including good governance principles, elements of effective governance, and policy and legal frameworks at international, national, and regional scales.

In the context of this toolkit, governance is defined as: The public and private interactions undertaken to address challenges and create opportunities within society. Governance thus includes the development and application of the principles, rules, normal, and enabling institutions that guide public and private interactions (Armitage et al., 2008).



Source: Fanning et al., 2007

A person wearing a traditional conical hat and a pink shirt is seen from behind, working with large blue fishing nets. The nets are draped and folded, creating a textured, wavy surface. The person's hands are visible, touching the nets. The background is a solid blue color.

CHAPTER 1

Introduction

CHAPTER 2

When to use the Toolkit

CHAPTER 3

Ways to define and categorize stakeholders

CHAPTER 4

Stakeholder Participation Processes and Tools

CHAPTER 5

Phases of the Stakeholder Engagement Cycle

CHAPTER 6

Case Studies

LARGE MARINE ECOSYSTEMS

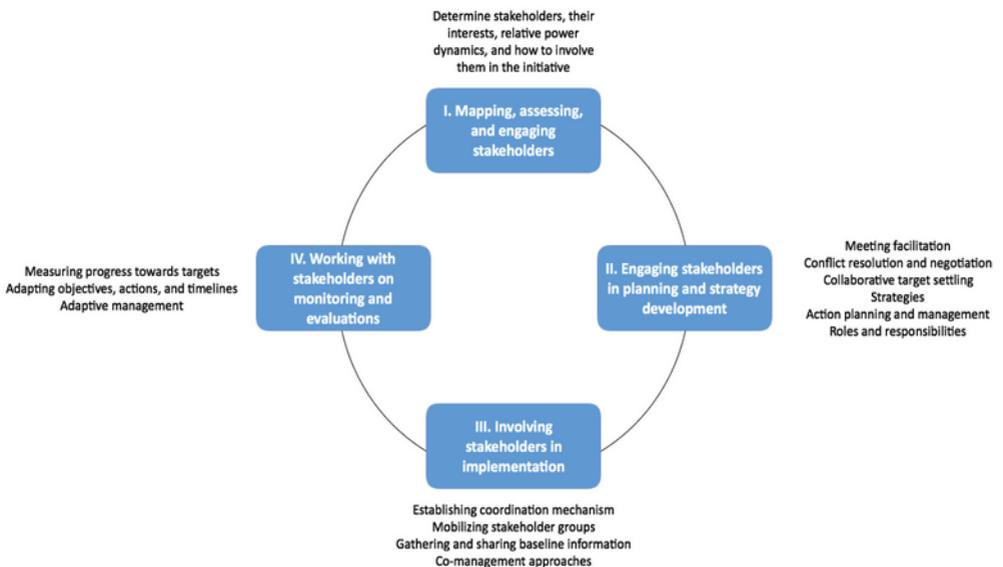
STAKEHOLDER PARTICIPATION IN ENVIRONMENTAL POLICY TOOLKIT

The Stakeholder Participation in Environmental Policy Toolkit compiles a range of ‘best practice’ tools for engaging stakeholders in environmental management that can be applied at multiple scales and for diverse purposes. The toolkit provides a background on why it is important to engage stakeholders, provides key definitions, and offers an easy to follow process with nested tools. The four phases of the process are: 1) Mapping, assessing, and engaging stakeholders; 2) Engaging stakeholders in planning and strategy development; 3) Involving stakeholders in implementation; 4) Working with stakeholders on monitoring and evaluations. The toolkit was developed based on the lessons learned, best practices, and experiences gathered by Conservation International through the Social Policy and Practice Department, the Ocean Health Index (with principles developed by the Consensus Building Institute), and in the Coral Triangle Initiative.

The Toolkit organizes and shares a range of approaches, gathering highly regarded tools for achieving effective stakeholder participation at all stages of environmental policymaking. It is intended to equip users with:

- A framework and principles for working collaboratively,
- Approaches for identifying relevant stakeholders,
- Specific tools for different needs in stakeholder engagement, and
- Strategies for reaching agreements.

Four-phase Stakeholder Engagement Cycle





INTRODUCTION

CHAPTER 2

Environmental Economics - Basic principles

CHAPTER 3

Impact assessment

CHAPTER 4

Valuation of ecosystem services

CHAPTER 5

Natural capital accounting

CHAPTER 6

Economic policy instruments

CHAPTER 7

Economic appraisal frameworks

CHAPTER 8

Economics of natural resource management

CHAPTER 9

Climate change economics

CHAPTER 10

Blue economy

LARGE MARINE ECOSYSTEMS

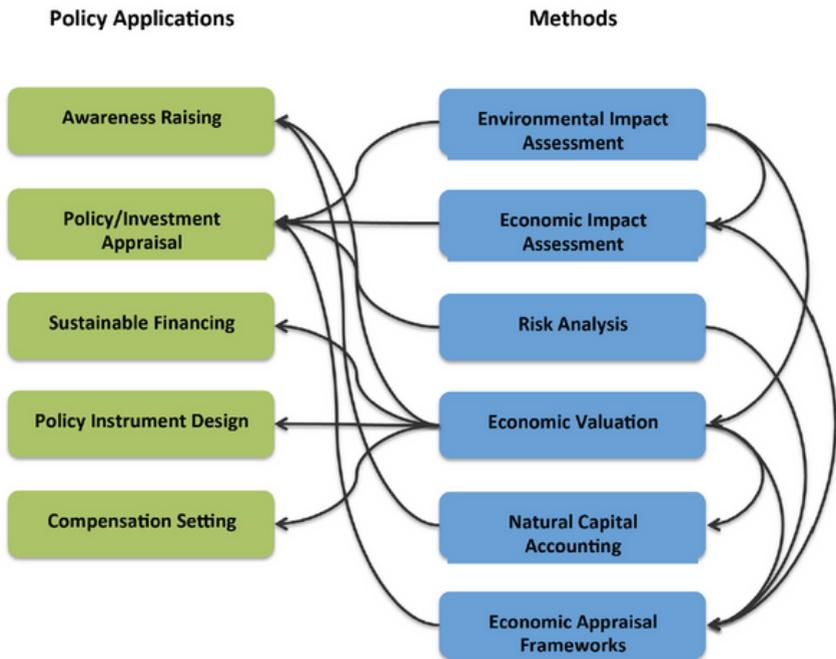
ENVIRONMENTAL ECONOMICS FOR MARINE ECOSYSTEM MANAGEMENT TOOLKIT

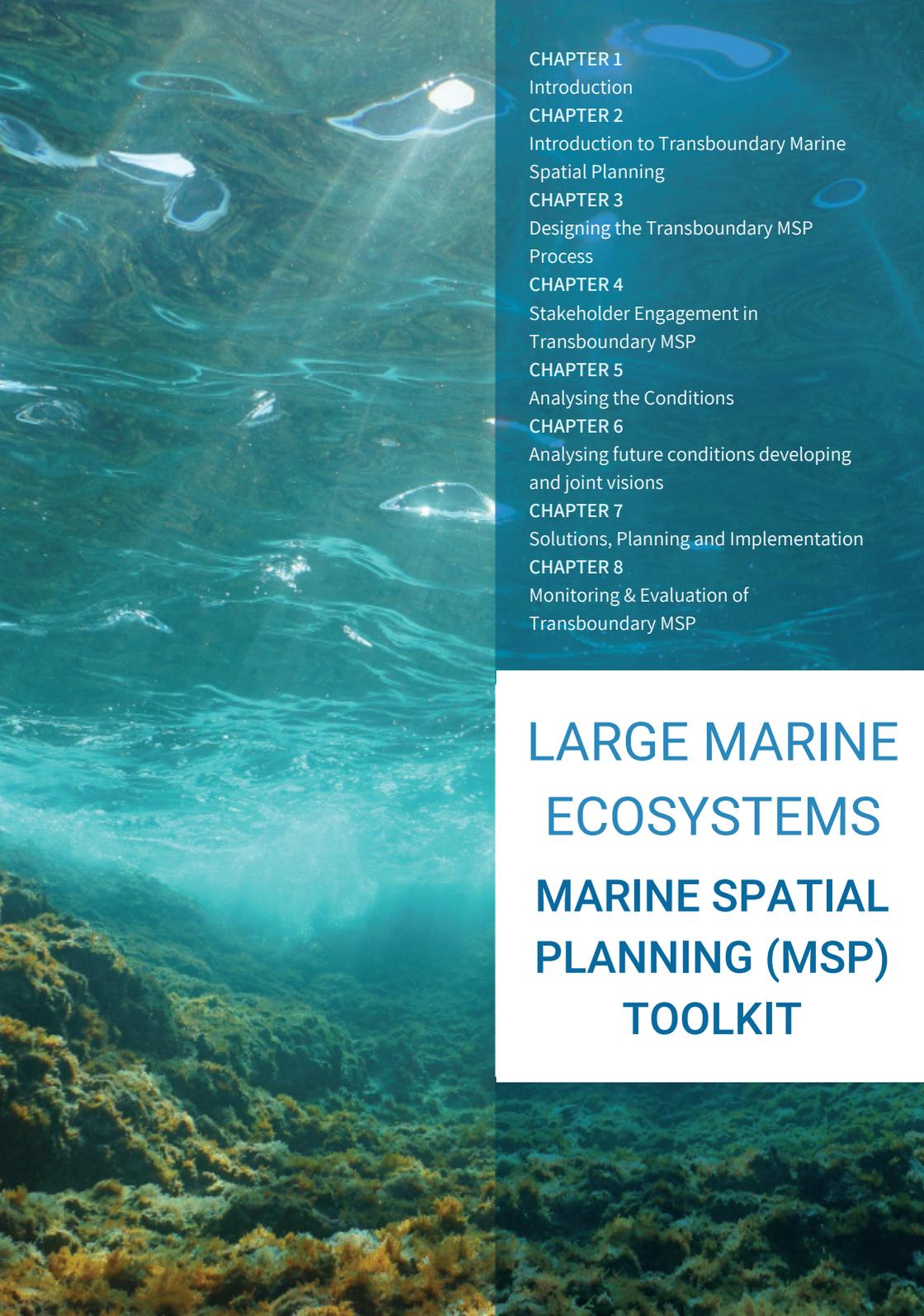
The purpose of the Environmental Economics for Marine Ecosystem Management Toolkit is to show how environmental economic methods can be used to produce information to support decision-making in the context of LME, MPA, ICM, MSP and climate change adaptation interventions. Specifically, it is designed to help a broad audience of practitioners, managers, government officials, private sector managers, NGOs, and statisticians to understand the available environmental economic tools and how the information generated can be used to inform the decisions that they make.

The Toolkit provides:

- A brief introduction to key environmental economic principles that are relevant to LME/MPA/ICM/MSP,
- Non-technical explanations of environmental economic methods and their applicability to different decision-making contexts,
- An explanation of the strengths and weaknesses of environmental economic methods and potential uncertainties,
- Links to available resources for each environmental economic method, and
- Illustrative applications of the use of economic methods for different scales and decision-making contexts for LME/MPA/ICM.

Policy applications and environmental economic methods





CHAPTER 1

Introduction

CHAPTER 2

Introduction to Transboundary Marine
Spatial Planning

CHAPTER 3

Designing the Transboundary MSP
Process

CHAPTER 4

Stakeholder Engagement in
Transboundary MSP

CHAPTER 5

Analysing the Conditions

CHAPTER 6

Analysing future conditions developing
and joint visions

CHAPTER 7

Solutions, Planning and Implementation

CHAPTER 8

Monitoring & Evaluation of
Transboundary MSP

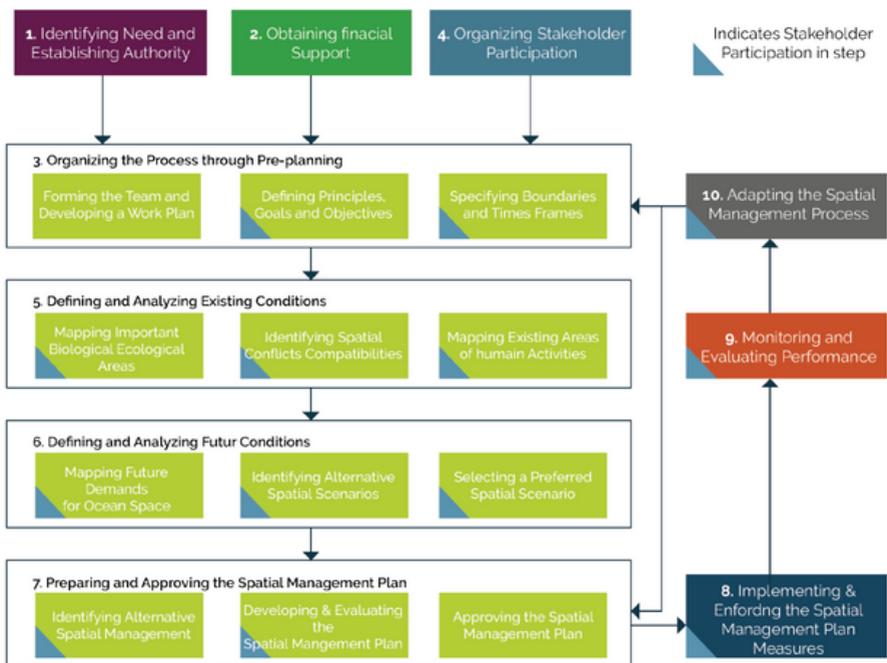
LARGE MARINE ECOSYSTEMS MARINE SPATIAL PLANNING (MSP) TOOLKIT

The Marine Spatial Planning (MSP) Toolkit provides MSP practitioners with practical guidance and examples of tools and methods that are necessary for designing and carrying out the MSP process in a transboundary, LME context.

The Toolkit is organised according to the general components of an MSP process, and highlights specific aspects which have to be taken into account during a transboundary MSP process. It provides examples of relevant tools and approaches, which can aid those involved in such a process to implement specific steps in the best possible way.

The Toolkit provides guidance for those who plan to initiate a transboundary MSP process including support for designing, organising and implementing the approach. It also serves individuals who are already involved in transboundary MSP by providing possible tools and methods for one or more specific steps within the MSP process.

IOC/UNESCO step-by-step approach to marine spatial planning (Source: Ehler and Douvere 2009)





CHAPTER 1

Introduction

CHAPTER 2

LME Project Identification

Form (PIF)

CHAPTER 3

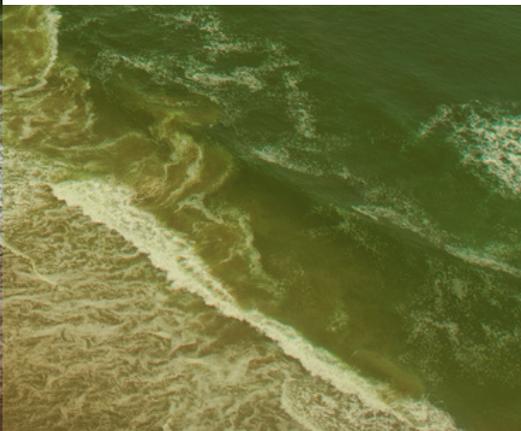
Preparation of the LME Full-

Size Project Documents

(ProDocs)

LARGE MARINE ECOSYSTEMS

LARGE MARINE ECOSYSTEMS PROJECT CYCLE TOOLKIT



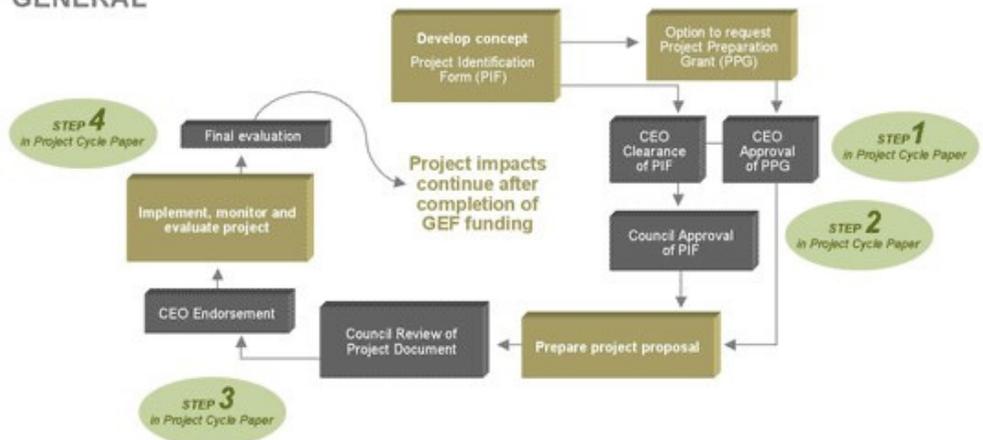
The purpose of the Large Marine Ecosystem Project Cycle Toolkit is to guide the preparation and design of LME projects relying in part on finance from the GEF International Waters focal area. It utilizes the experiences gained and definitions/formats used in a growing body of GEF funded LME projects.

The objective of the Toolkit is to engender increased success in the implementation of LME projects by improving their design. The Toolkit will assist in delivering:

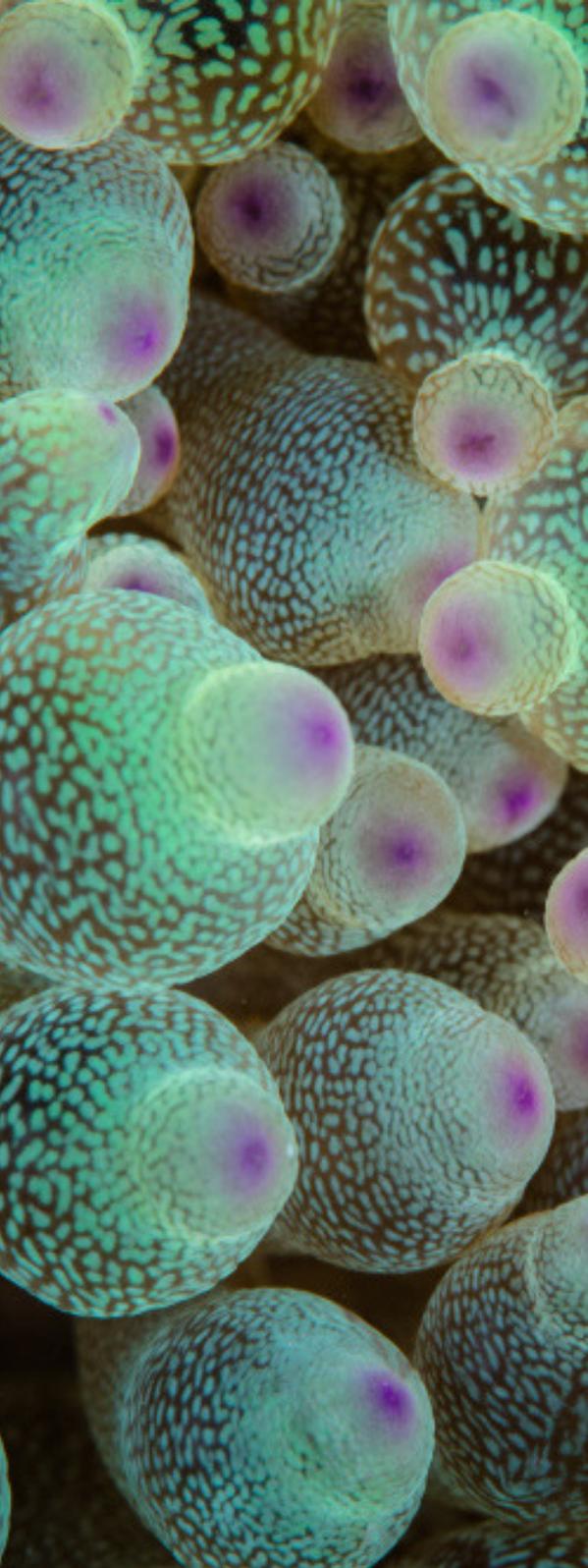
- better integration of stakeholders in the preparatory phase of LME projects;
- enhanced LME project preparation capacity; and
- more cost-effective LME projects.

The target audience of the Toolkit is relatively large and includes: implementing agencies and experts developing new projects and drafting the respective project documents; PCUs of existing projects when they are developing new follow-up project proposals to scale-up the projects they have been managing; project and agencies' partners; and national and local administrations and other stakeholders who will have a stake in implementing LME projects.

GENERAL



The GEF Project Cycle
(downloaded from: http://gef.prisenet.com/report_detail.cfm?projectId=172)

- 
1. LME Data Sheet: Description and Characteristics of the LME
 2. LME Management Effectiveness Scorecard: A Rapid Evaluation of LME Progress
 3. Summary Assessment Results: A Summary of Relative Progress on Each LME Management Module
 4. Priority Actions Based on Results: Identifying Actions to Fill Gaps and Strengthen Management

LARGE MARINE ECOSYSTEMS

LARGE MARINE ECOSYSTEM MANAGEMENT EFFECTIVENESS SCORECARD

The Large Marine Ecosystem (LME) Management Effectiveness Scorecard provides LME managers and stakeholders with a tool to quickly evaluate management effectiveness to help improve decision making in LME implementation. Once completed by users, the scorecard will provide basic guidance that allows prioritization of efforts and identification of tools to advance towards management targets.

The goal of the scorecard is to provide LME managers and stakeholders with a dynamic approach for assessing their management performance against conservation and sustainable use standards, anchored on ecosystem-based management principles. The tool is tailored to relate with the ecological, governance, and social context of LMEs. The tool can be applied at national, subnational, and at LME scales, allowing the tool to provide a regional vision for effective management according to regional and national goals.

The scorecard should be completed by the LME manager either with a core subset of relevant stakeholders, or with a larger comprehensive group that representative of all the stakeholders within the LME area.

Large Scale Marine Area Indicator Framework - Data Sheet

Fill this section out in its entirety before answering the assessment questions.

<u>Name of LSMA:</u>	-
<u>Date LSMA assessment was carried out:</u>	-
<u>Name/s and affiliations of assessors (annex list of participants):</u>	-
<u>Role (position and organization):</u>	-
<u>Contact information (email):</u>	-
<u>Is there an organization that coordinates the LSMA?</u>	-
<u>The name of the organization that coordinates LSMA activities and partners:</u>	-
<u>The name(s) of the primary partner organizations that implement LSMA objectives:</u>	-
<u>LSMAs website (if any):</u>	-

PARTNERS

GLOBAL ENVIRONMENT FACILITY (GEF)

Through its strategic investments, the GEF works with partners to tackle the planet's biggest environmental issues. The GEF is the funding agency for LME:LEARN and the portfolio of projects we provide services to.

UNITED NATIONS DEVELOPMENT PROGRAM

(UNDP) works to eradicate poverty and reduce inequalities through the sustainable development of nations. UNDP works in cooperation with other UN agencies, the GEF, international financial institutions, regional organizations, NGOs, the private sector and others to improve water and ocean management and sustain livelihoods at local, national, regional and global scales through effective water and ocean governance. UNDP is the implementing agency for the LME:LEARN project.

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION OF THE UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULTURAL ORGANIZATION (IOC-UNESCO)

promotes international cooperation and coordinates programmes in marine research, services, observation systems, hazard mitigation, and capacity development in order to understand and effectively manage the resources of the ocean and coastal areas. IOC-UNESCO is the project executor and contributes capacity building, technical knowledge, data and information exchange, project management, and project sustainability.

INTERNATIONAL UNION FOR CONSERVATION OF NATURE (IUCN)

provides public, private and non-governmental organizations with the knowledge and tools that enable human progress, economic development and nature conservation to take place together. IUCN is responsible for development of the Environmental Economics toolkit and the LME Hub on the LME:LEARN website.

THE INTERNATIONAL COUNCIL FOR THE

EXPLORATION OF THE SEA (ICES) is a global organization that develops science and advice to support the sustainable use of the oceans. ICES is responsible for the Governance Working group, delivery of the Governance Toolkit, organization of training courses and dissemination of best practices.

CONSERVATION INTERNATIONAL (CI) is a nonprofit environmental organization with a goal to protect nature as a source of food, fresh water, livelihoods and a stable climate. CI is responsible for the development of the toolkits on Stakeholder Participation and LME Assessment, as well as developing a guide on planning and implementing comprehensive marine management capacity development.

THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) is an agency of the U.S. Department of Commerce. NOAA has a diverse range of diverse skills and expertise that it shares as part of their continued science and technical support of LME projects and other related capacity building activities for ecosystem-based approaches in the management of coastal and marine resources.

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