



CARIBBEAN LARGE MARINE ECOSYSTEM PROJECT

www.clmeproject.org

INDICATORS & the CLME+ Strategic Action Programme

CLME Project: 4th Replenishment of the GEF - International Waters

CLME+ Project: 5th Replenishment of the GEF (*in preparation*)

CHALLENGES: INDICATORS - DIFFERENT NEEDS TO BE ADDRESSED

Inform and support :

- at local, national, regional, and global levels
- projects**, programmes, protocols, conventions,...
- political vs technical decision-makers
- project/programme managers, politicians, technocrats, donors, stakeholders, general public

achieving knowledge interface
terrestrial dynamics
deliberate delivery
beliefs
ice
thaw
logging
agreements
rights
robust
diminishing
deepen
precipitation
accelerating
tipping

United Nations Environment Programme
UNEP

UNEP Live
Tracking the State of Our Environment

HOME | REPORTS | MAPS & GRAPHICS | DATA & INDICATORS | EMERGING ISSUES | SOE LIVE | MY COUNTRY

Quick Find Enter a term or phrase

Find Reports »

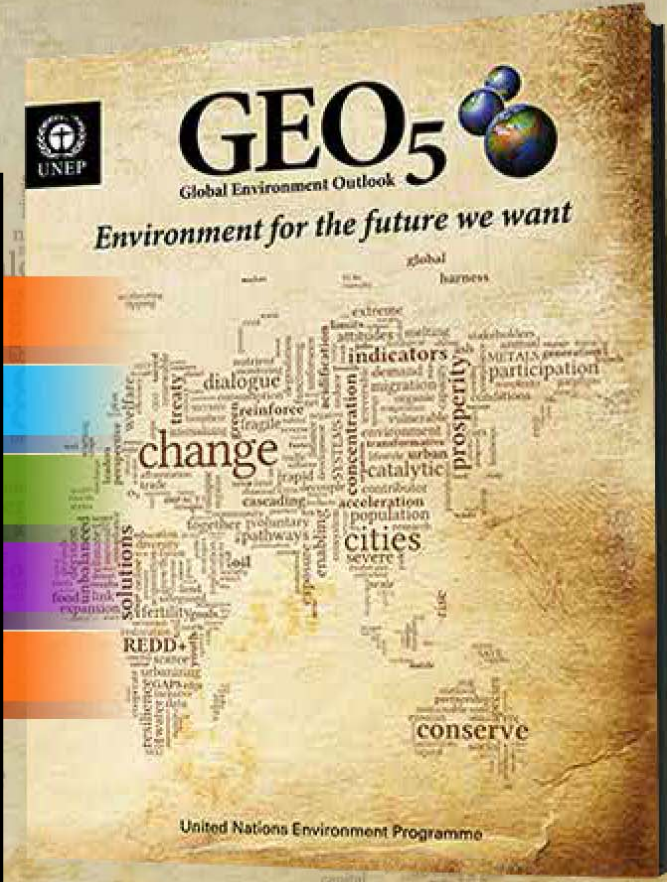
Find Maps »

Find Data & Indicators »

Identify Emerging Issues »

State of the Environment Live »


Total Ozone (Dobson Units)
110 220 330 440 550



Part 1: State and trends of the environment	Part 2: Policy Options	Part 3: Global Responses	The GEO-5 Process, Acronyms and Abbreviations, Contributors	Glossary and Index	Figures
Summary for policy makers	Regional Fact Sheets	Press Releases	Policy Briefs	Video	Spin-off products



[INDEX BY COUNTRY](#) [GOALS](#) [ANNUAL CHANGE](#) [REGIONALS](#) [ABOUT OHI](#) [NEWS](#)

[SEARCH](#) 

Follow us   

A healthy ocean sustainably delivers a range of benefits to people both now and in the future. The Index evaluates the world's oceans according to 10 public goals that represent key benefits of healthy marine ecosystems.

CMA CARIBBEAN MARINE ATLAS

Home | Map Page | Meetings | Resources | About

Welcome to the website of the Caribbean Marine Atlas project. Click on [Map Page](#) above or on one of the images in the right panel to go directly


Recent News

CMA Web App Manual

 **Using the Map Application**
4. Querying Map Layers



IMS/REMP
Information Management System & Regional Ecosystem Monitoring Program



Sustainable Management of the shared Living Marine Resources of the Caribbean Large Marine Ecosystem (CLME) and Adjacent Regions

CLME Project: Sustainable Management of shared living marine resources in the CLME and adjacent areas

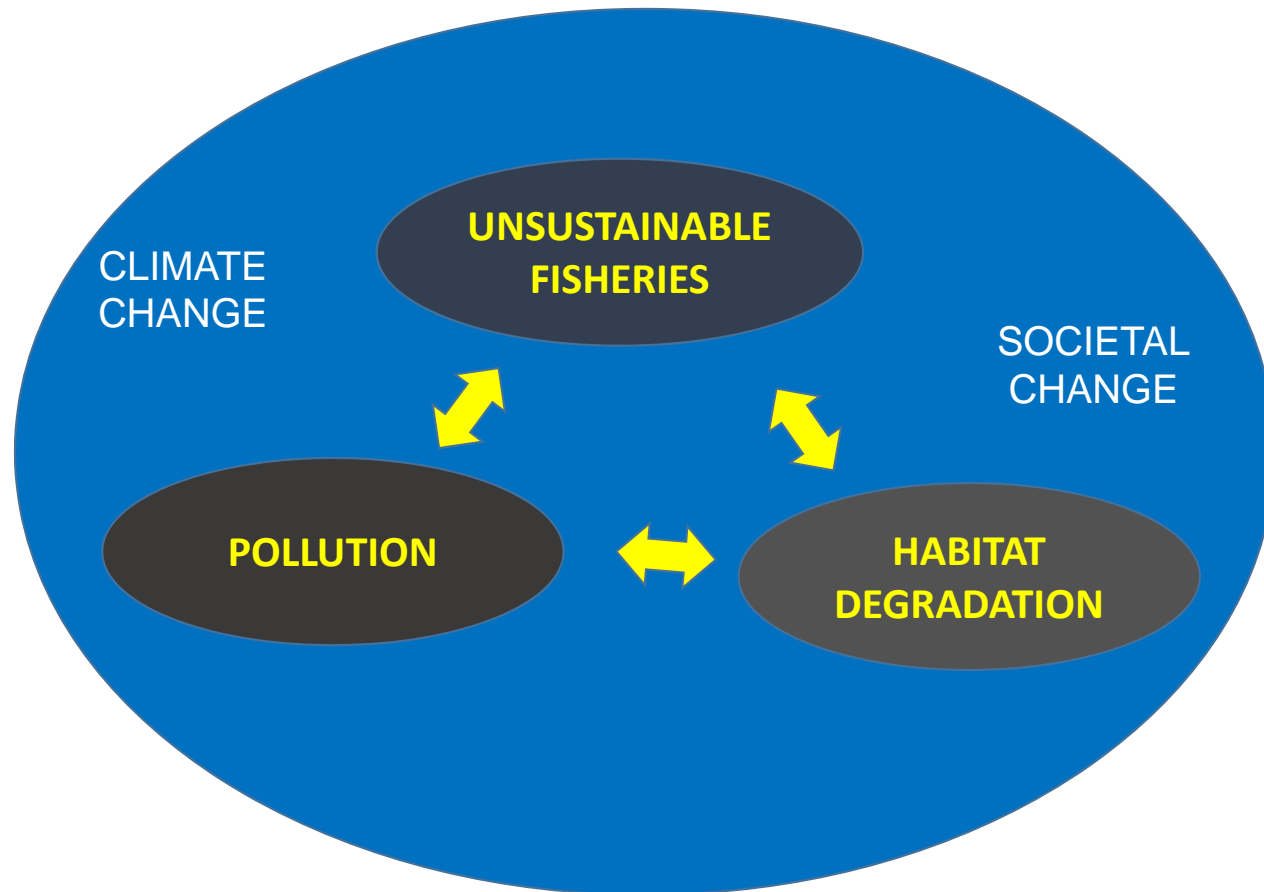


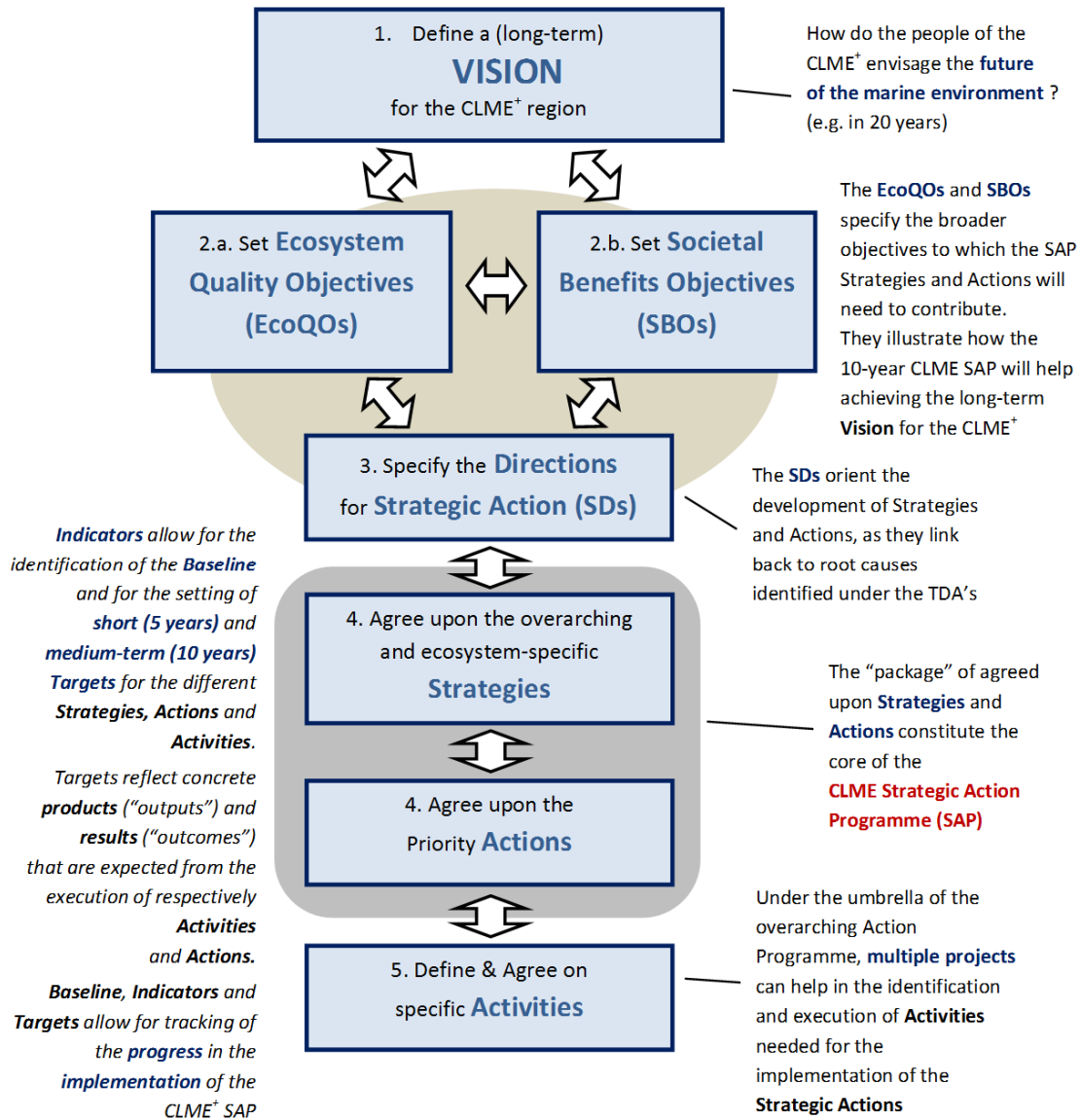
CLME⁺ Project Objective: *Facilitating EBM/EAF in the CLME⁺ for the sustainable and climate resilient provision of goods and services from shared living marine resources, in line with the endorsed CLME⁺ SAP*

CLME+ = 2 LMEs: the CARIBBEAN LME and the NORTH BRAZIL SHELF LME
25 GEF-eligible countries + dependent territories + USA

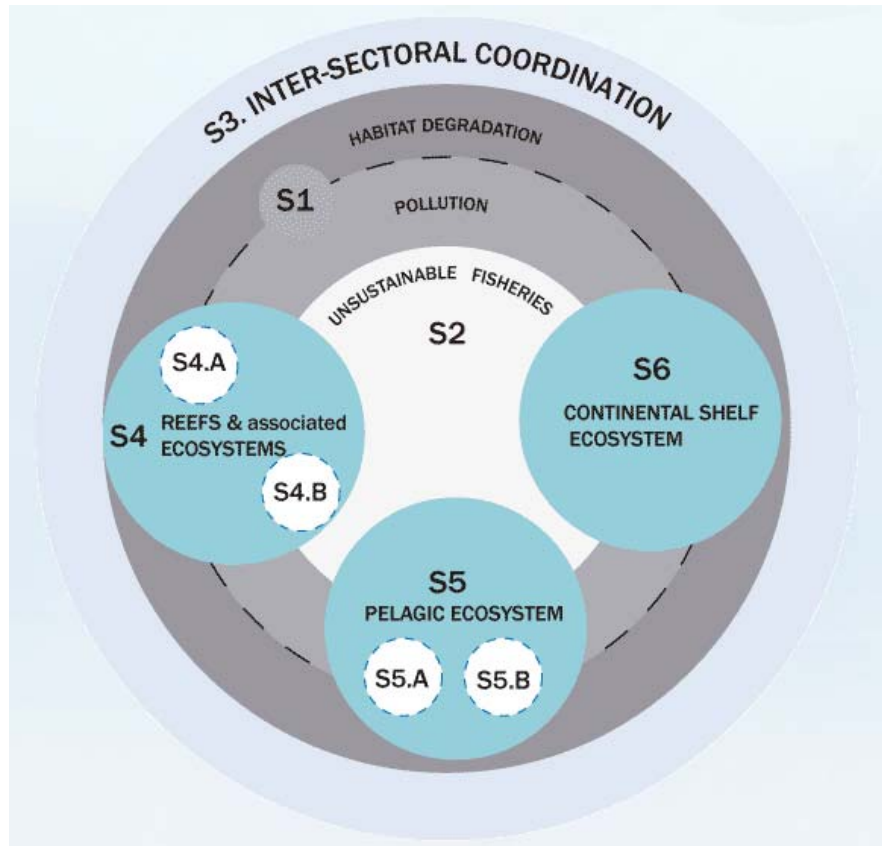


**CLME TRANSBOUNDARY DIAGNOSTIC ANALYSES:
3 KEY PROBLEMS throughout the CLME+**





CLME SAP:
6 main STRATEGIES
and 4 sub-strategies



- S1** – Protection of the Marine Environment
- S2** – Sustainable Fisheries
- S3** – Inter-sectoral Coordination

S4 – EBM, Reef Ecosystems

S4a Spiny Lobster Fisheries

S4b Queen Conch Fisheries

S5 – EAF, Pelagic Ecosystem

S5a Flyingfish Fisheries

S5b Large Pelagics Fisheries

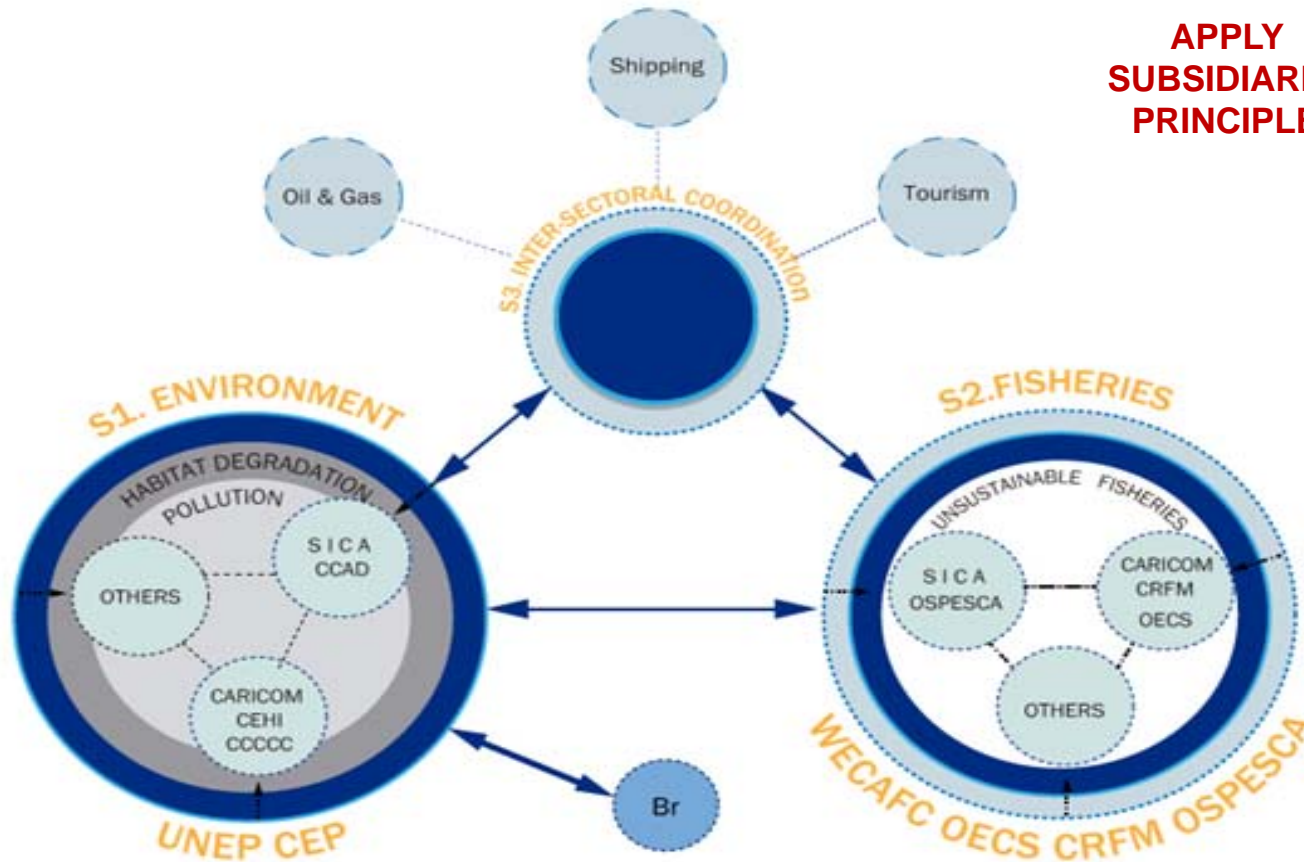
S6 – EBM/EAF, Continental Shelf



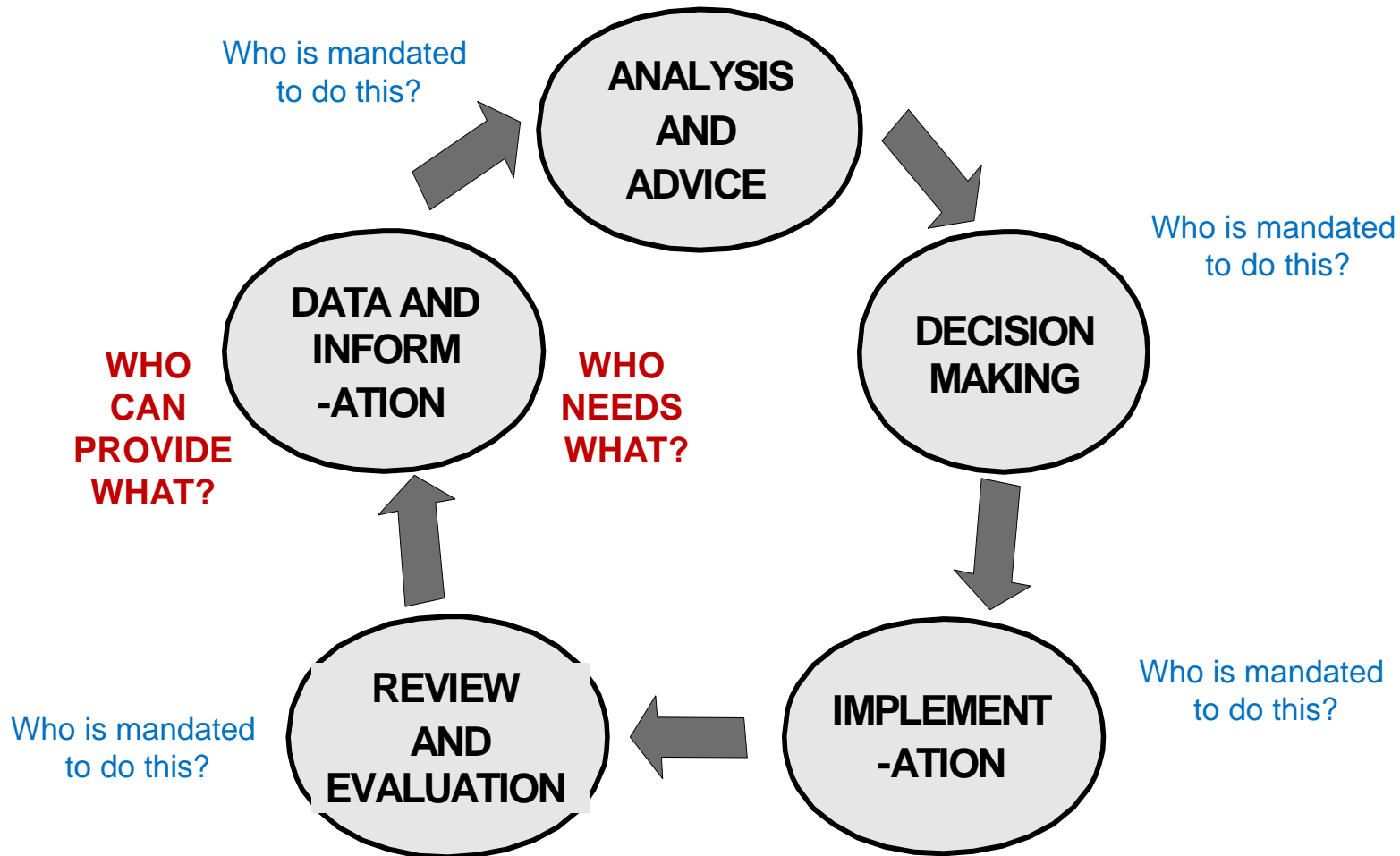
Caribbean
LME
Project

CLME Strategic Action Programme: 3 Regional Strategies

**APPLY
SUBSIDIARITY
PRINCIPLE!**



sLMR Governance: the Policy Cycle



GOVERNANCE EFFECTIVENESS

Mandate:

- **Geographic scope:** ecosystem? Species range?
- **Thematic scope:** sectoral? Integrated?

Arrangements/
architecture in
place?

Mandates assigned
for each
component?

Governance
processes
operational?

Mandates
effectively
executed?

Linkages effective?

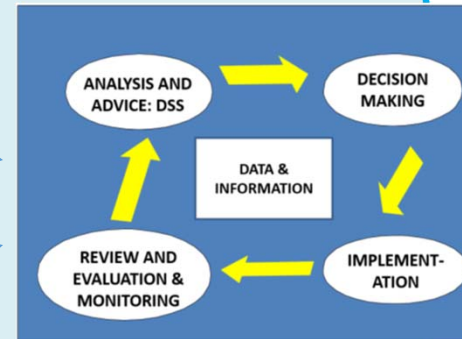
Stakeholders
appropriately
engaged?

Ecosystem
stressors
reduced?

Socially just
outcomes
achieved?

Ecosystems
improved/
protected?

Human
well-being
improved/
assured?

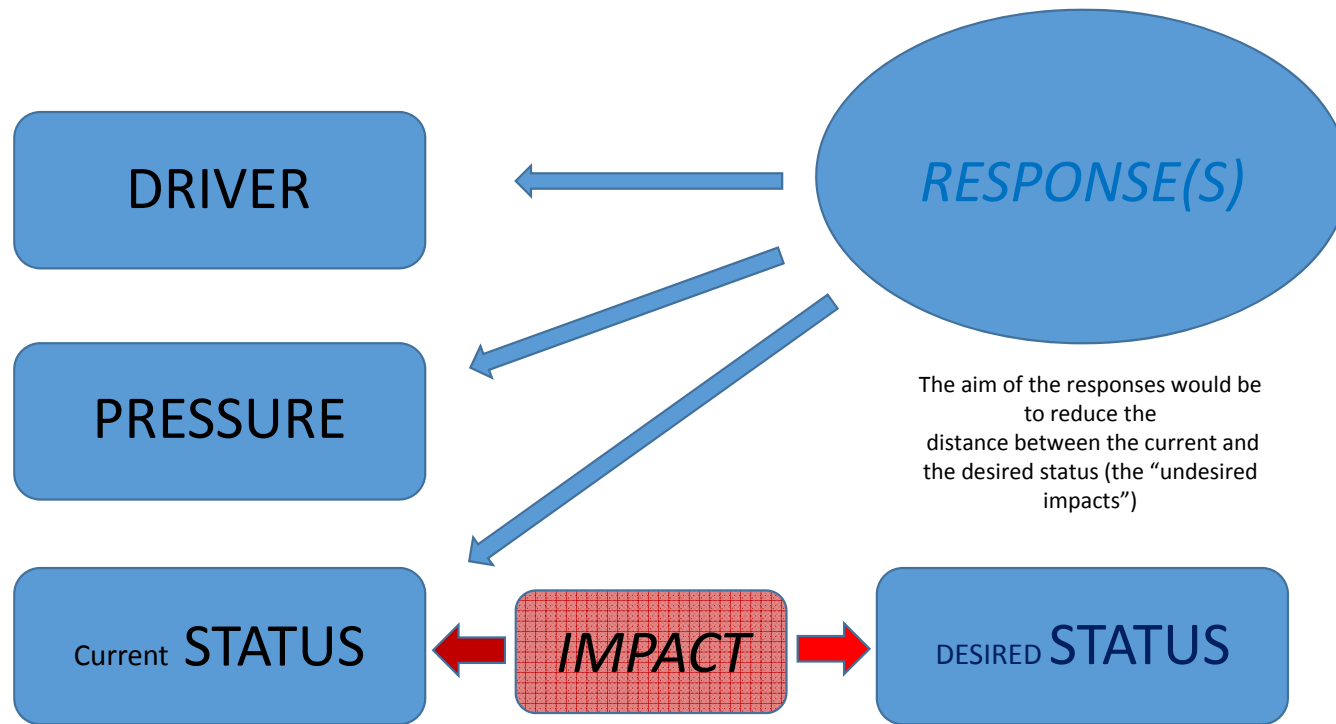


The Policy Cycle

DPSIR FRAMEWORK

(Driver-Pressure-State-Impact-Response)

(slightly modified version – CLME)



Responses can act on the Drivers, or on the Pressures, or can directly attempt to restore conditions in the field (act directly on Status)

Different sectors of society will have different mandates, or will be better positioned, to implement certain “solutions”, or responses.

Typically, a “bundle” of well-coordinated responses will provide the best opportunity for achieving a more holistic, sustainable solution

Collaboration among different actors is therefore required:

Government
Civil Society / CSOs /NGOs
Private Sector

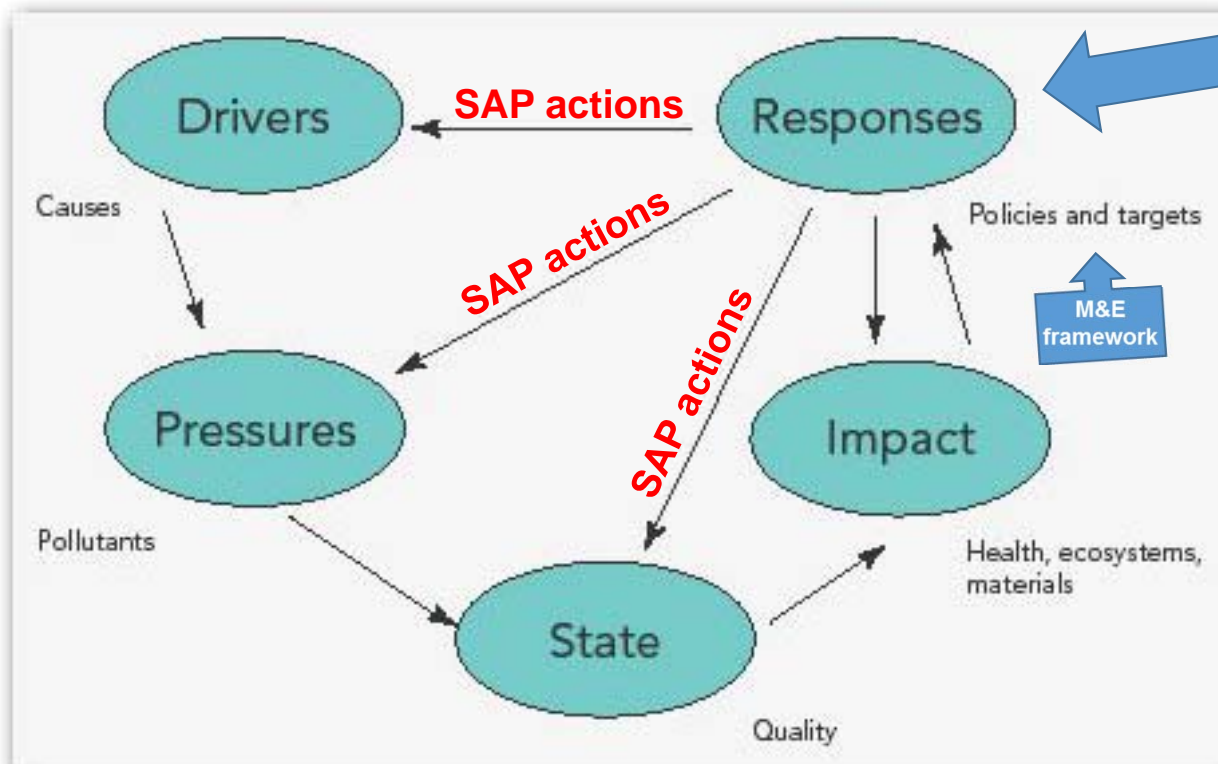
Think of status in terms of:

- Fish stock status
- Ecosystem status/health
- Socio-economic conditions
- Human health
- Etc.

Think of impact in terms of:

The distance of what you would want, and what you currently have, with this distance being a consequence of the existence of Drivers and Pressures

“DPSIR”, SAP and CMA...



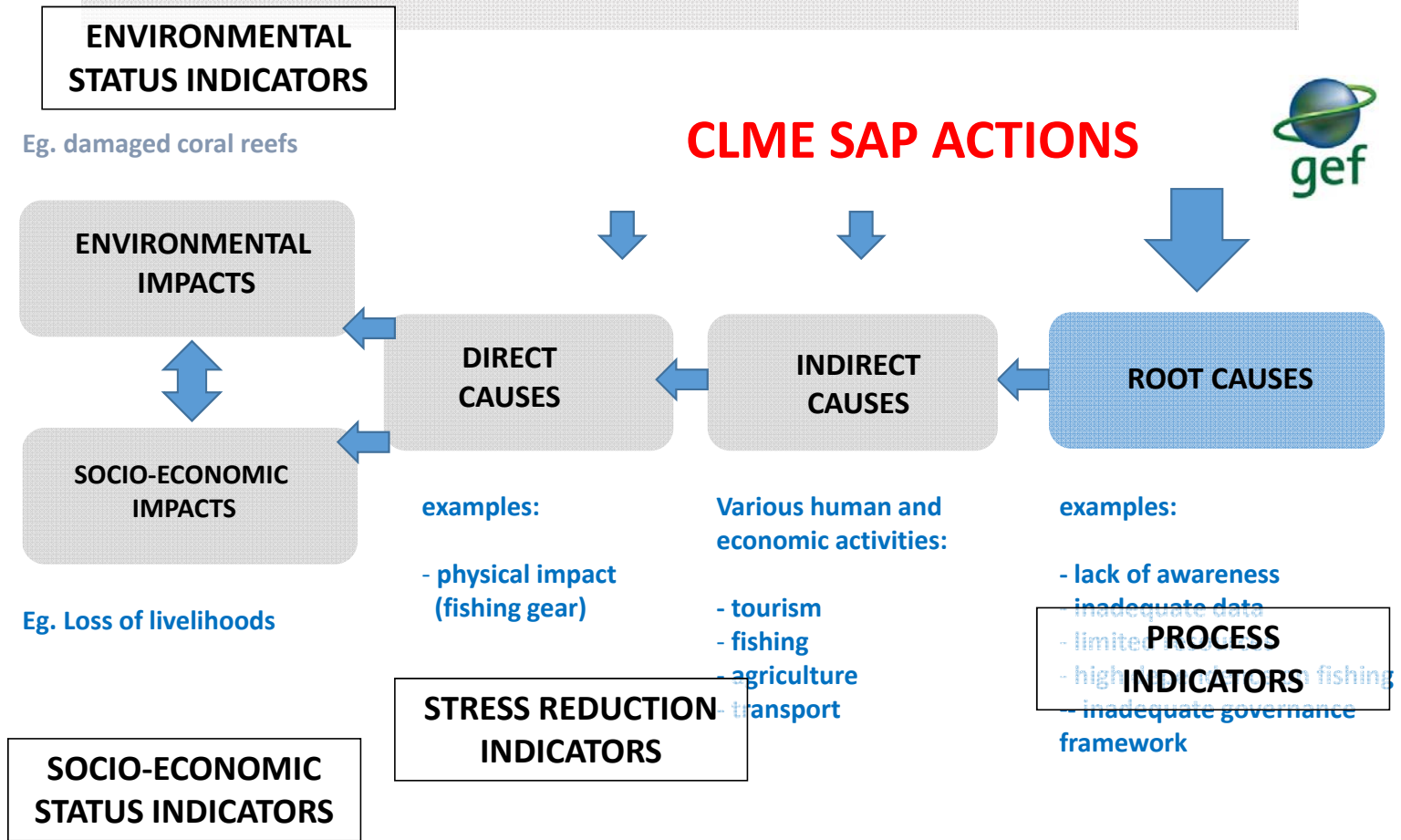
INDICATORS:

periodic monitoring of “distance to target” helps:

- ✓ setting priorities
- ✓ allocating resources
- ✓ tracking progress
- ✓ revision of actions (as needed)

- ❑ CMA2 CAN HELP MAP: DRIVERS, PRESSURES, STATE, IMPACTS
- ❑ SOCIETY DEFINES “**DESIRED STATE**” of ECOSYSTEMS, SOCIO-ECONOMIC CONDITIONS
- ❑ (negative) IMPACT = DIFFERENCE BETWEEN “**CURRENT**” AND “**DESIRED**” STATE
- ❑ INDICATORS: BASELINE/TARGET; MONITOR PROGRESS IN REDUCING NEGATIVE IMPACTS

Causal-Chain Analysis



(Alternative to CCA = “DPSIR” (EEA): Drivers – Pressure – Status – Impact – Response)



Caribbean
LME
Project

DATA & INFORMATION:
CRITICAL CONCEPTS
IN CONTEXT OF CLME

1. CLME CONCEPTUAL APPROACH: 3X3 MATRIX

- 3 key problems
- 3 key “fishery” ecosystem types

2. NOAA “LME” CONCEPT: 5-MODULAR APPROACH

- productivity indicators
- fish/fisheries indicators
- pollution/ecosystem health indicators
- socio-economic indicators
- governance indicators

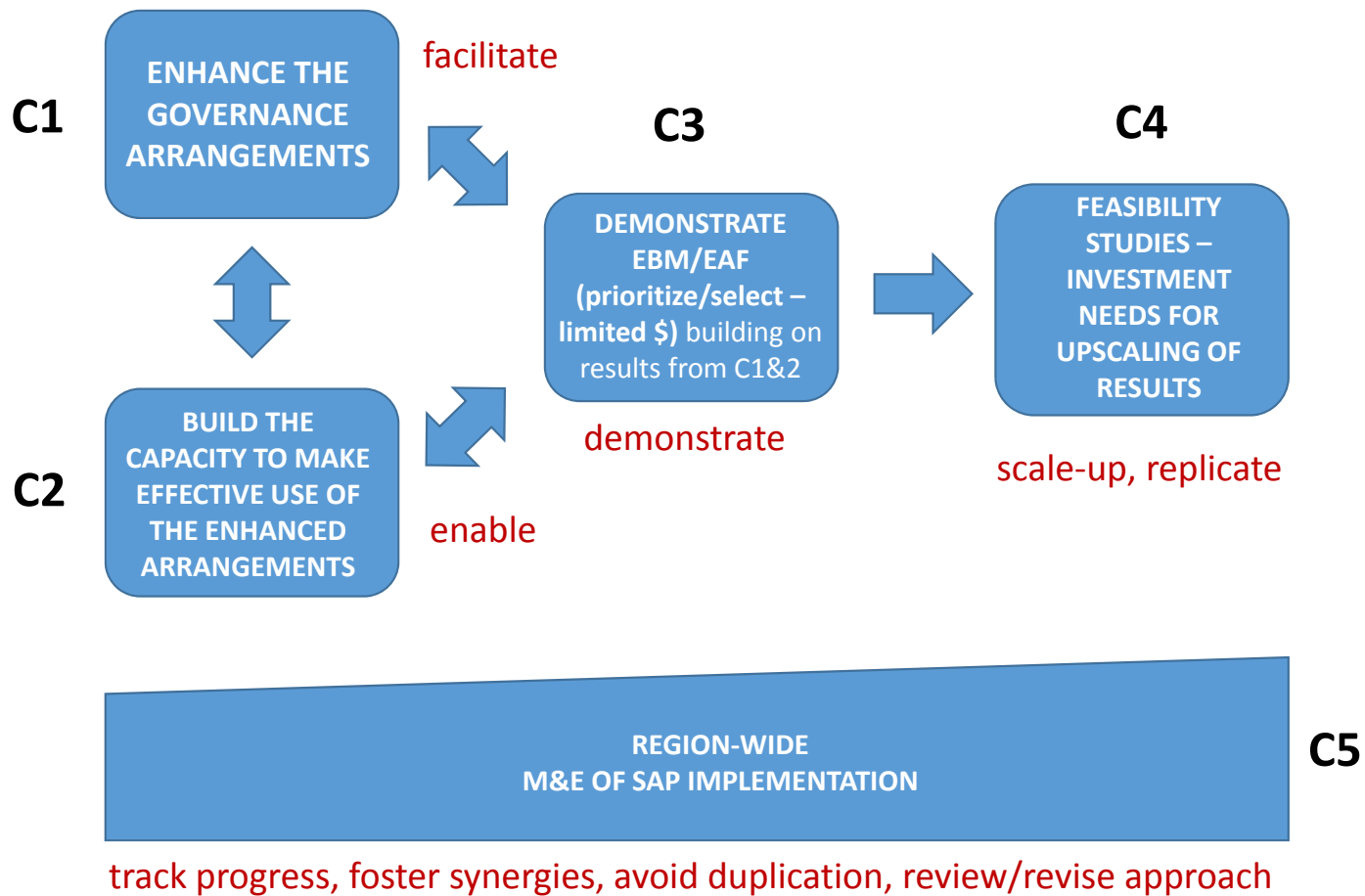
3. GEF LME INDICATOR FRAMEWORK:

- process indicators
- stress reduction indicators
- environmental / ecosystem status indicators
- (socio-economic indicators)

4. GEF TRANSBOUNDARY WATERS ASSESSMENT PROGRAMME (TWAP)

- governance architecture
- governance effectiveness

COMPONENTS OF THE CLME+ PROJECT (PIF)



OUTCOME 5 - (a) enhanced coordination and collaboration among shared Living Marine Resources (sLMR) projects and initiatives in the region; (b) adaptive management of sLMR-related projects and initiatives in the region; (c) exchange of best/good practices among the LME CoP

- **Partnerships/cooperation among development partners, programmes, projects, initiatives (PPIs) and countries/territories with a stake in the CLME+ SAP (“CLME+ SAP Partnership”)**
- **Common/compatible approaches for the joint Monitoring & Assessment of overall SAP implementation** (*using concepts from the GEF IW M&E Strategy, the Regional Governance Framework (RGF) & Governance Effectiveness Assessment Framework, Regional Seas indicators,...*)
- **SAP implementation web portal(s) and other dissemination means** providing CLME+ stakeholders with overview of periodically updated indicator sets (*process, stress reduction, environmental/ecosystem and socio-economic status indicators*)
 - *“State of the Marine Ecosystems and shared Living Marine Resources in the CLME+” Digital Portal and Report (“Progress with CLME+ SAP” and “CLME+ Project implementation” sections)*
- **Global dissemination and sharing of experiences with other LMEs**
 - *IW:LEARN twinnings / exchanges*
 - *regional IW:LEARN workshops*
 - *UNEP Regional Seas?*

CLME+ PROJECT M&E FRAMEWORK

PROJECT OUTPUT-LEVEL INDICATORS, BASELINE & TARGETS		
Output	Associated Indicator(s)	Associated Targets
O1.1. Agreements on regional/sub-regional coordination and cooperation arrangements and institutional mandates, as set forward under the SAP	<p>PI.1. Possibility for all CLME+ countries to formally participate in regional coordination/ decision-making mechanism for the protection of the marine environment</p> <p>PI.2. Interim region-wide arrangement for sustainable fisheries</p> <p>PI.3. Decision with regard to WECAFC mandate and its relationship to regional fisheries bodies</p> <p>PI.4. Agreement on Regional Fisheries Management Organization (RFMO) or alternative arrangement for the management of fisheries resources in the CLME+</p> <p>PI.5. Interim "SAP+ implementation" coordination mechanism, involving/integrating the arrangements for sustainable fisheries and the protection of the marine environment</p> <p>PI.6. Permanent policy coordination mechanism</p>	<p>PI.1. Formal agreement between Brazil and UNEP-CEP regarding mutual coordination/collaboration with the Cartagena Convention and its Protocols, established by ...</p> <p>PI.2. Interim arrangement for sustainable fisheries, under the coordination of FAO-WECAFC and including CRFM, OSPESCA and OECS established by ...</p> <p>PI.3. Target A: Costs/benefits of a reform of WECAFC's mandate reviewed, and report delivered by Target B: Formal decision regarding the long-term mandate of WECAFC by ...</p> <p>PI.4. Formal agreement on long-term fisheries management arrangement among at least ...% of CLME+ countries, by ...</p> <p>PI.5. Target A: Interim mechanism established by ...</p> <p>PI.6. Target A: Permanent, inclusive and sustainable policy coordination mechanism for sLMR management in the CLME+ proposed by, in line with Action 3.2 of the CLME+ SAP, Target B: Permanent policy coordination mechanism agreed upon by all relevant parties by</p>
O1.2. National Inter-sectoral/ministerial coordination mechanisms (incl. science-policy interfaces, as feasible)	PI.1. Existence of functioning national-level inter-sectoral coordination mechanism(s)	PI.1. Inter-sectoral coordination mechanisms (with clear mandate) operating and sustainable in at least ...% of participating countries by ...

Thank you

www.clmeproject.org

CLME Project Coordination Unit
Cartagena, Colombia
(57) (5) 664 88 82
info@clmeproject.org