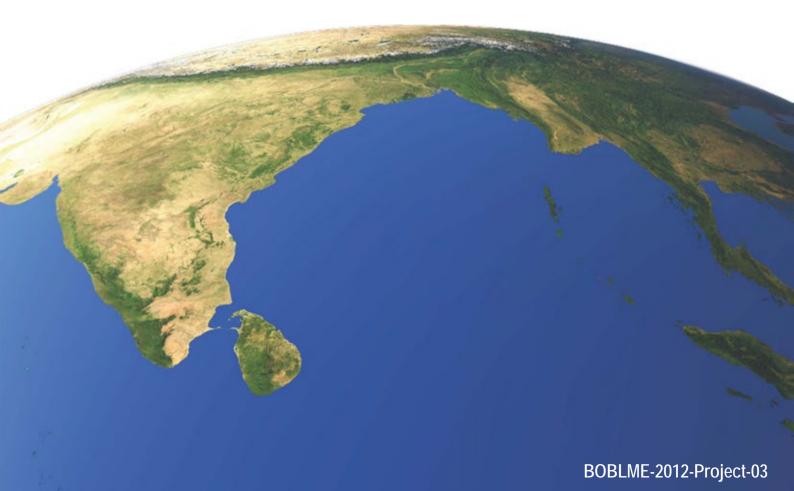


Report of the SAP Process Development Workshop

15 - 17 February 2012 • Phuket Thailand

Bay of Bengal Large Marine Ecosystem Project



	Report of the SAP Process Development Workshop
The designations employed and the presentation of material in the of any opinion whatsoever on the part of Food and Agricult concerning the legal and development status of any country, tental concerning the delimitation of its frontiers or boundaries.	ture Organization of the United Nations
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TABLE OF CONTENTS

1.	BACKGR	OUND	4
2.	OVERVIE	EW OF THE TDA-SAP PROCESS	4
3.	OVERVIE	EW OF THE CONFIRMED TDA	4
4.	4.1 Reg 4.2 Ecos	G TDA ISSUES INTO SAP OBJECTIVES	5 5
5.	THE SAP 5.1 The	DEVELOPMENT PROCESSSAP processSAP (document) framework	5
6.	RECOM	MENDATIONS TO THE PROJECT STEERING COMMITTEE	6
7.	ADOPTIO	ON OF THE REPORT	6
App	endix I	Agenda	7
App	endix II	Participants	8
App	endix III	List of documents	10
App	endix IV	draft SAP guideline objectives, targets, indicators and actions	11
App	endix V	Draft SAP completion process	26
App	endix VI	Draft SAP document framework	29

ABBREVIATIONS

AECEN	Asian Environmental Compliance and Enforcement Network
ADCP	Asian Disaster Preparedness Center
APFIC	Asia-Pacific Fishery Commission
ASEAN	Association of Southeast Asian Nations
BOBLME	Bay Of Bengal Large Marine Ecosystem
BOBP-IGO	Bay Of Bengal Programme Inter-Governmental Organisation
CBD	Convention on Biodiversity
CCRF	FAO Code of Conduct for Responsible Fisheries
COBSEA	Coordinating Body on the Seas of East Asia
EA	Ecosystem Approach
EAA	Ecosystem Approach to Aquaculture
EAF	Ecosystem Approach to Fisheries
EASP	UNEP East Asian Seas Programme
EBM	Ecosystem Based Management
EEZ	Economic Exclusive Zone
FAO	Food and Agriculture Organization of the United Nations
FAO RAP	FAO Regional Office for Asia and Pacific
GCRMN	Global Coral Reef Monitoring Network
GEF	Global Environment Facility
GETF	Global Environment and Technology Foundation
GOOS	Global Ocean Observation System
GPA	UNEP Global Programme of Action
ICSF	International Collective in Support of Fishworkers
INCOIS	Indian National Centre for Ocean Information Services (INCOIS)
IOGOOS	Indian Ocean Global Ocean Observing System
IOSEA-Turtle	Indian Ocean South East Asia Turtle Memorandum
IOTC	Indian Ocean Tuna Commission
IUCN	International Union for Conservation of Nature
IUU fishing	Illegal, Unreported and Unregulated fishing
IW-LEARN	International Waters Learning Exchange and Resource Network
MCS	Monitor, Control and Surveillance
MDG	Millennium Development Goals
MFAR	Ministry of Fisheries and Aquatic Resources
MFF	Mangroves For the Future
MPA	Marine Protected Area
NACA SACEP	Network of Aquaculture Centres in Asia-Pacific
SASP	South Asia Cooperative Environment Programme
	South Asian Seas Programme
SEAFDEC	Southeast Asian Fisheries Development Center South Indian Federation of Fishermen Societies
SIFFS	
SEA-RLC SSF	Southeast Asia Regional Learning Centre Small-Scale Fisheries
SAP	Strategic Action programme Transboundary Diagnostic Analysis
TDA	Transboundary Diagnostic Analysis
WorldFish UNEP	WorldFish Centre
	United Nations Environment Programme
UNDP	United Nations Development Programme

EXECUTIVE SUMMARY

BOBLME Project National Coordinators and independent Strategic Action Programme (SAP) Experts met in Phuket, Thailand on 15-17 February 2012 to:

- develop high level objectives for the draft SAP
- develop a draft SAP document framework
- develop a draft SAP completion plan

The meeting comprised a series of presentations on SAP processes and development; breakout groups to derive regional environmental objectives and ecosystem quality objectives; and plenary discussions.

The meeting made the following recommendations:

- 1. on a Regional Environmental Objective for the BOBLME SAP *A healthy ecosystem and sustainable use of marine living resources for the benefit of the countries of the Bay of Bengal Large Marine Ecosystem*
- 2. on Ecosystem Quality Objectives for the BOBLME SAP
 - Theme 1. Overexploitation of marine living resources: Fisheries and other marine living resources are restored and managed sustainably.
 - Theme 2. Degradation of critical habitats: *Degraded, vulnerable and critical marine habitats are restored, conserved and maintained.*
 - Theme 3. Pollution and water quality: Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health.
- 3. that the draft objectives for SAP issues developed during the meeting should serve to guide regional technical discussions on SAP actions.
- 4. that the draft SAP should comprise the (SAP) framework elements listed in the report annex.
- 5. that the PSC should consider adopting a SAP Completion Process which is based on the draft plan given in the report annex.

1. BACKGROUND

- 1. One of the two major outputs of the BOBLME Project is to produce an agreed Transboundary Diagnostic Analysis (TDA) that identifies and prioritises the major transboundary environmental concerns in the Bay of Bengal. This is a perquisite to the other major output expected from the Project, the Strategic Action Programme (SAP) that will address and remediate them.
- 2. The process for finalising the TDA and initiating the SAP is as follows:
 - i. Updating the TDA (2010) completed
 - ii. Developing a roadmap for national TDA consultations (2010) completed
 - iii. Undertaking national consultations (2011) completed
 - iv. Synthesising the recommendations from the national consultations completed
 - v. National Coordinators and National TDA managers meet to consider the results of the TDA consultations and confirm the document (13-14 February 2012) completed
 - vi. <u>National Coordinators and SAP experts (using the confirmed TDA) will meet to draft a SAP framework and a work plan for SAP completion (15-17 February 2012) this meeting</u>
 - vii. In March 2012, the Project Steering committee will meet to consider adopting the TDA and the SAP framework and completion plan.
- 3. BOBLME Project National Coordinators and independent SAP Experts met in Phuket, Thailand on 15-17 February 2012 to undertake step 2vi above, and specifically:
 - develop high level objectives for the draft SAP
 - develop a draft SAP framework
 - develop a draft SAP completion plan
- 6. The meeting was chaired by the BOBLME Project's Regional Coordinator Dr Chris O'Brien.
- 7. The agenda for the meeting (Doc-01) is attached as Appendix I.
- 8. The list of participants is given in Appendix II.
- 9. The list of documents is given in Appendix III.

2. OVERVIEW OF THE TDA-SAP PROCESS

- 10. Dr Rudolf Hermes, the BOBLME Project Chief Technical Adviser gave a presentation describing the BOBLME TDA-SAP, including the elements of a SAP process (Doc-02).
- 11. Dr Derek Staples gave a presentation on the frameworks used in SAPs from other LME projects that had already been finalised, and identified the most common elements in the form of a generic framework from which the meeting could develop a draft framework for the BOBLME SAP(Doc-03).
- 12. SAP Experts, Ms Lucy Scott and Dr David Laroche gave presentations on their experiences and observations on SAP development (Doc-04 and Doc-05, respectively).

3. OVERVIEW OF THE CONFIRMED TDA

13. Dr Derek Staples, for the TDA synthesis team, gave a presentation on the TDA development, consultation and synthesis process, which culminated in the confirmation of the TDA by National Coordinators and TDA managers in a meeting that preceded the SAP development meeting (Doc-06).

4. TURNING TDA ISSUES INTO SAP OBJECTIVES

4.1 Regional Environmental Objective

- 14. Dr Derek Staples gave a presentation on turning TDA issues into SAP objectives (Doc-07). And participants were provided with a template documents to assist them in the following break out activities (Doc-08).
- 15. The meeting work-shopped the wording for a Regional Environmental Objective for the BOBLME SAP that would represent a high level, long term goal for the BOBLME. The meeting started with the BOBLME Project's current Global Environment Objective: A healthy ecosystem and sustainability of living resources for the benefit of the coastal populations of the Bay of Bengal Large Marine Ecosystem (BOBLME); and derived the following objective:

Regional environmental Objective for the BOBLME Strategic Action Programme;

A healthy ecosystem and sustainable use of marine living resources for the benefit of the countries of the Bay of Bengal Large Marine Ecosystem

4.2 Ecosystem Quality Objectives (EcoQO's)

- 16. The SAP is required to include Ecological Quality Objectives (EcoQOs) for each of the major themes identified in the TDA. Within the concept of a "healthy and sustainable marine ecosystem" for present and future generations, the EcoQOs are intended to provide a set of clear environmental indicators stating aspirations for a healthy Bay of Bengal as part of the ecosystem approach.
- 17. A series of break out activities were undertaken to develop agreed EcoQO's for each of the BOBLME themes which would represent the long term goals for an acceptable future state of the environment. The meeting derived the following EcoQO's:

Ecosystem Quality Objectives for the BOBLME Strategic Action Programme;

Theme 1. Overexploitation of marine living resources

Fisheries and other marine living resources are restored and managed sustainably.

Theme 2. Degradation of critical habitats

Degraded, vulnerable and critical marine habitats are restored, conserved and maintained.

Theme 3. Pollution and water quality

Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health.

4.3 Issues, objectives, targets and indicators

18. Further breakout activities were undertaken to develop draft objectives for each EcoQO/issue. This exercise served to inform the National Coordinators about the nature and extent of the work to be undertaken by regional technical groups on Fisheries Pollution and Habitats as part of the SAP process in 2012. In addition to the draft objectives, the meeting also produced examples of targets, indicators and actions (Appendix IV) to assist the forthcoming regional technical discussions.

5. THE SAP DEVELOPMENT PROCESS

5.1 The SAP process

19. The BOBLME CTA gave a presentation on the elements of a SAP process and the steps that would be required to finalise it (Doc-02).

- 20. Project Management Experts, Dr Yugraj Yadava and Mr Hla Win gave presentations on their experiences working in the Bay of Bengal region and highlighted various challenges the RCU might face in developing the SAP (Doc-09 and Doc-10, respectively).
- 21. The leader of the BOBLME Mid Term Evaluation described a range of findings and insights from the recent evaluation that might need to be considered in the development of the SAP development and completion plan (Doc-11).
- 22. The meeting discussed the characteristics of the SAP development process, highlighting the importance of aspects such as advocacy and developing partnerships; and cross cutting features such as capacity building, enforcement, education- communication, inclusion of youth. The meeting also discussed the roles of various personnel involved in the process, risks and challenges.
- 23. From these discussions, a draft SAP completion process was produced (Appendix V).

5.2 The SAP (document) framework

24. Dr Jayampathy Samarakoon, the BOBLME SAP writer, outlined a draft framework for the SAP document that was derived from the generic SAP framework in section2 and meeting deliberations. The meeting reviewed the draft framework, made some changes and agreed on a final draft that would be presented to the PSC for its consideration (Appendix VI).

6. RECOMMENDATIONS TO THE PROJECT STEERING COMMITTEE

- 25. Recalling the guidance and outcomes of successive national TDA consultations and TDA confirmation process as a foundation for the SAP.
- 26. In consideration of the information presented, workshop exercises and intensive deliberations during the SAP Process Development meeting, the participants made the following recommendations:
- 27. That the above Regional Environmental Objective for BOBLME and Ecosystem Quality Objectives (EcoQOs) (refer section 4) be used in the SAP.
- 28. That the draft objectives generated during the meeting serve to guide regional technical discussions on SAP actions (Appendix IV).
- 29. That the PSC adopts a SAP completion Process which is based on the draft plan given in Appendix V.
- 30. That the draft SAP should comprise the (SAP) framework elements listed in Appendix VI, as quidance.

7. ADOPTION OF THE REPORT

31. The above recommendations were adopted on the final day of the meeting, and other report contents were agreed to by email.

Appendix I Agenda



Bay of Bengal Large Marine Ecosystem Project

DRAFT AGENDA

PREPARED BY THE RCU

BOBLME SAP development meeting

15-17 February 2012, Phuket, Thailand, Starting 9 am

The BOBLME Project is expected to produce two major outputs. The first is an agreed Transboundary Diagnostic Analysis (TDA) that identifies and prioritises the major transboundary environmental and fisheries concerns in the Bay of Bengal. This is a prerequisite to the second major output, the Strategic Action Programme (SAP) that will address and remediate the concerns.

The process for finalising the TDA and initiating the SAP consists of 7 steps - see over page. This meeting concerns step number 6: National Coordinators and SAP experts (using the confirmed TDA) meet to draft a SAP framework and a work plan for SAP completion.

DRAFT Agenda

DAY ONE:

- 1. Welcome, workshop purpose and introductions
- 2. Overview of the TDA-SAP process, including:
 - (i) the elements of a SAP
 - (ii) SAP experiences other SAPs, input from SAP experts
- 3. Overview of the confirmed TDA
- 4. Turning TDA issues into SAP objectives, actions and targets (breakout groups)
 - (i) ECOQO's
 - (ii) issues / objectives / targets / information needs
 - (iii) (acting as the regional technical working party on fisheries) actions for fisheries issues

DAY TWO:

- (continue) turning TDA issues into SAP objectives, actions and targets [output = SAP framework with objectives]
- 5. SAP Development process- actions, timelines and monitoring progress [output = SAP development plan]
 - (i) recalling the elements of a SAP process
 - (ii) the findings of the Mid Term Evaluation relating to SAP development and their implications for the SAP
 - (iiii) SAP development process

DAY THREE:

Drafting of recommendations to the Project Steering Committee [output = Recommendations to the PSC on a draft SAP framework; and a process for SAP completion].

Page 1 of 2

Appendix II Participants



BANGLADESH	INDIA
National Coordinator Dr Yahia Mahmud Chief Scientific Officer (Director) Bangladesh Fisheries Research Institute (BFRI) yahiamahmud@yahoo.com	National Coordinator Alternative for Dr Vijayakumaran Kandachamy Mr B Vishnu Bhat Fisheries Development Commissioner Ministry of Agriculture Government of India Department of Animal Husbandry Dairying & Fisheries Room bhatbvishnu@gmail.com
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National Coordinator Unable to attend	National Coordinator Mr Ismail Bin Ishak Research Collaboration Coordinator, International Affairs Fisheries Research Institute Department of Fisheries ismail4852@gmail.com
MALDIVES	MYANMAR
National Coordinator Dr Mohamed Shiham Adam Director General Marine Research Centre Ministry of Fisheries and Agriculture msadam@mrc.gov.mv	National Coordinator U Mya Than Tun Assistant Director Ministry of Livestock and Fisheries Department of Fisheries mttun@myanmar.com.mm myathantundof@gmail.com

	Report of the SAP Process Development Work
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Expert Advisers	
Mr Arne Andreasson BOBLME Mid Term Evaluation Team Leader arne.c.i.andreasson@gmail.com Dr David LaRoche	Mr Hla Win National Champion (BOBLME Project) DOF (DDG-Rtd) hlawin.dofmm@gmail.com Dr Yugraj Singh Yadava
Consultant dal1727@gaw.com dal1727@yahoo.com	Director BOBP-IGO yugraj.yadava@bobpigo.org
Ms Lucy Scott Data and Science Coordinator Agulhas and Somali Current LME Project ASCLME House 18 Somerset Street lucy.scott@asclme.org	Dr Simon Funge-Smith Senior Fishery Officer FAO-RAP simon.fungesmith@fao.org
RCU	
Bay of Bengal Large Marine Ecosystem Project (BOBLME) 77 Moo 7, Sakdidej Rd. Makham Bay Amphur Muang Phuket 83000 Thailand Phone: +6676391861 Fax: +6676391864 Dr Chris O'Brien	Dr Jayampathy Indrasiri Samarakoon BOBLME SAP Writer Business Phone: +94112739249 Mobile Phone: +94776975816 Fax: +9411268 2470 jayampathysamarakoon@gmail.com Dr Derek J Staples TDA-SAP Consultant
Regional Coordinator chris.obrien@boblme.org	Australia derekstap@gmail.com
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Mr Nishan Deepal Sugathadasa Technical Officer	

nishan.sugathadasa@boblme.org

Appendix III List of documents

Reference	Title
BOBLME-2012-SAPprocess_Doc-01	Agenda
BOBLME-2012-SAPprocess_Doc-02	Overview of Strategic Action Programmes. Rudolf Hermes (ppt)
BOBLME-2012-SAPprocess_Doc-03	SAP Experience. Derek Staples (ppt)
BOBLME-2012-SAPprocess_Doc-04	The Agulas and Somali Current Large Marine Ecosystem Project. Lucy Scott (ppt)
BOBLME-2012-SAPprocess_Doc-05	GEF Strategic Action Programs: Historical and Current Perspectives. David LaRoche (ppt)
BOBLME-2012-SAPprocess_Doc-06	Overview of the TDA development process. Derek Staples (ppt)
BOBLME-2012-SAPprocess_Doc-07	Turning a TDA into a SAP. Derek Staples (ppt)
BOBLME-2012-SAPprocess_Doc-08	BOBLME SAP- setting objectives, indicators and actions - a template for breakout groups
BOBLME-2012-SAPprocess_Doc-09	The BOBLME SAP Development meeting - challenges and suggestions. Yugraj Yadava (ppt)
BOBLME-2012-SAPprocess_Doc-10	Myanmar perspectives. Hla Win (ppt)
BOBLME-2012-SAPprocess_Doc-11	BOBLME mid term evaluation findings and recommendations (as they might relate to SAP development). Arne Andreasson (ppt)

Appendix IV draft SAP guideline objectives, targets, indicators and actions

Three Themes (Overexploitation of marine living resources, degradation of critical habitats and pollution and water water quality) and their related issues (14 in total) were derived from the BOBLME TDA. Ecological Quality Objectives (EcoQOs) were derived in this meeting.

For the theme *Overexploitation of marine living resources*, draft objectives, targets, indicators, information needs and actions were derived to guide subsequent regional technical meetings (see below).

For the themes *Degradation of critical habitats, and pollution and water quality,* draft objectives, targets, indicators and information needs were derived to guide subsequent regional technical meetings. (see below)

The (two) breakout groups at this meeting used the following template below to assist deliberations.

The information contained in the tables are meant to serve as a guide to three regional technical working group meetings (one each for fisheries experts, habitats experts and pollution experts) to be held later in 2012.

Setting of objectives, indicators and actions (one for each issue)

ons and actions (one for each issue)
ne living resources
er marine living resources have been restored and are managed sustainably.
of fish resources
What are you trying to achieve to address this issue?
What is the target and by when?
What measure would you use to judge performance
What information is required to check the indicator against the target?

PART B	
Actions	
Institutional arrangements	
- Current	What are the main institutional arrangements in place for addressing this issue?
- Future	What new institutional arrangements will be needed?
Legal and policy reforms	
- Current	What are the main policies that affect this issue are currently in place?
- Future	What policy reforms will be needed in the future and what legal support is required?
Management measure	
- Current	What management actions are currently used?
- Future	What needs to be in place in the future?
Enforcement and compliance	
- Current	What arrangements are currently used to ensure compliance with rules and regulations?
- Future	What extra enforcement and compliance arrangements will need to be introduced ?
Awareness and communication	Who will be the main target(s) for improved communications and awareness building?
Human capacity development	What capacity building is required and who will be the main target audience?
Responsible agency	Nominate what agency is responsible for monitoring and reporting on the issue?
Other	

тнеме: Overexplo	pitation of marine living resources
Agreed EcoQO: F and managed su	Fisheries and other living marine resources are restored stainably,
ISSUE 1: Decline	in overall availability of fish resources
PART A	
Objective, target a	
Objective	Restore depleted fish stocks or overfished resources Rebuild overexploited transboundary fisheries
Target	Reduce fishing effort and fishing capacity to match MSY Noting each fishery will have different targets: Biomass of small pelagic species increased by x% by 2025 Fishing effort reduced by x % by 2020 Reduce the use of destructive fishing methods by x% by 20xx
Indicator	Total catch is less than MSY CPUE Fishing effort Fleet capacity Fish landings Number of boats Number of fishers
Information needs	Catch statistics; fleet statistics/effort - proxies Stock assessments of indicator stocks Size-length measures Fisheries statistics (LF, catch stats etc) stock assessment (MCS) enforcement records, boat register
PART B	
Actions	
Institutional arrangem	ents
- Current	National fisheries and agencies BOBPIGO western BOB (science/advice, no management advice) SEAFDEC eastern BOB (science/advice, no management advice) BOBLME fisheries working groups [SACEP/SCZMC – move to biodiversity/resources/reefs?] BOBP-IGO, SEAFDEC, IOTC, NACA, BIMSTEC, ASEAN, IOMAC, APFIC, SAARC, IUCN National research agencies

- Future	Practical arrangements that address resources shared by 2-3 countries Sub-regional working groups providing management advice Strengthening of SEAFDEC & BOBPIGO to coordinate members science programmes, convene management advisory committees and provide management advice Longer term a regional coordinating arrangement that focuses on non tuna species Regional body that can serve as an umbrella on fisheries management of TB species in the 2. BOB BOBP-IGO (hilsa) BOBP-IGO-SEAFDEC (Indian mackerel) National research agencies
Legal and policy reforms	
- Current	National fishery laws (may need updating) and related acts. No existing harmonized system to share information regionally Few countries have limits on capacity or entry of vessels Vessel licensing/registration is starting, but incomplete and not linked to a capacity limit. Some zoning exists, but it may not be strongly enforced Transboundary & domestic IUU fishing is poorly regulated (partly due to limited MCS systems) National fisheries instruments
	international and soft instruments CCRF
- Future	Fishing effort management Capacity management Development of fishery management plans (or fishery improvement plan) for key/ important/commercial resources or fishing areas/zones. Reorient/develop fishery science/fishery information collection to support development of management plans Incorporate TB management of Marine living resources into national tools Possible other from Policy review
Management measure	
- Current	National rules and regulations exist but not uniformly implemented Many of the regulations are targeted at conflict reduction, spatial exclusions, banning of controversial or destructive fishing methods Gear measures may be in place, but there is poor compliance Scientific data collection programmes exist in most countries but not targetted to management (or is not shared for management of straddling stocks) Vessel licensing and registers may not be coordinated across the competent agencies.

- Future	Fishing effort management
	Capacity management
	Development of fishery management plans (or fishery improvement plan) for
	key/ important/commercial resources or fishing areas/zones.
	Reorient/develop fishery science/fishery information collection to support
	development of management plans
	Budget for management
	Bilateral agreements
	Monitoring
	Gear regulations (selectivity)
	Effort management (closed seasons - space and time)
	Harmonised measures
	Co management (community involvement)
	Fisheries statistics - collection and management
Enforcement and compl	
- Current	Portside monitoring/inspections
04.1.5110	Some fishery patrols/navy (but limited coverage)
	Some community level MCS (but patchy, may not result in legal action)
	VMS being introduced but limited coverage/pilot level
- Future	Increased VMS coverage
- Tuture	Co-management approaches to increase engagement with fishers to improve
	compliance/understanding as well as encourage community level MCS – legal
	structure support this
	structure support triis
	Officers need to be mobile
	bilateral agreements
	monitoring control and surveillance
	Dedicated MCS staff
Awaranass	
Awareness	Large scale fishers, Small-scale fishers, Local government
and	Ministerial/government, Conservation/environment lobby
communication	Tailous d'information to accordent/toution, advisation
	Tailored information to secondary/tertiary education
	Business sector
	Dedicated community -based units
	target community, govt
	translations
Human	National Fisheries Departments (coordination and collection from national
Capacity	fishery associations, provincial fisheries managers etc.)
development	Sub-regional or regional bodies with coordinating function 2. officers role in
	MCS needs to be clarified and officers trained and resourced
	Stock assessment
	data collection and management training
	EAF/CCRF training

Responsible agency	National Fisheries Departments (coordination and collection from national
	fishery associations, provincial fisheries managers etc.)
	Sub-regional or regional bodies with coordinating function
Other	

THEME: Overexplo	itation of marine living resources
Agreed EcoQO: Fisheries and other living marine resources are restored and managed sustainably,	
ISSUE 2: Changes	in species composition
PART A	
Objective, target ar	nd indicators
Objective	Increase the proportion of higher valued and longer-lived species in catches Restore and maintained species balance
Target	(Short Term)% composition of key (indicator) species increases over (current) baseline (Longer term) % composition of key (indicator) species matches composition of 20 years ago) Noting each fishery will have different targets:
	Biomass of indicator species increased by x% by 2025 Fishing effort reduced by x % by 2020 use of destructive fishing methods reduced by x% by 20xx bycatch of top predators reduced by x% by 20xx Trophic index is increased
Indicator	% of large demersal and pelagic species increases % of low value/trash catch decreases Trophic index of catch increases Biomass of indicator species Landings of indicators species Number of boats targeting indicator species Number of fishers Improved MCS tools Trophic index
Information needs	Catch statistics Catch/size composition Trophic index CPUE of indicator speices Fisheries statistics (LF, catch stats etc) Stock assessment (MCS) enforcement records, boat register

PART B	
Actions	
Institutional arrangemen	nts
- Current	National fisheries and agencies BOBPIGO western BOB (science/advice, no management advice) SEAFDEC eastern BOB (science/advice, no management advice) BOBLME fisheries working groups [SACEP/SCZMC – move to biodiversity/resources/reefs?] BOBP-IGO, SEAFDEC, IOTC, NACA, BIMSTEC, ASEAN, IOMAC, APFIC, SAARC, IUCN National research agencies
- Future	Practical arrangements that address resources shared by 2-3 countries Sub-regional working groups providing management advice Strengthening of SEAFDEC & BOBPIGO to coordinate members science programmes, convene management advisory committees and provide management advice Longer term a regional coordinating arrangement that focuses on non tuna species Regional body that can serve as an umbrella on fisheries management of TB species in the BOB BOBP-IGO (hilsa) BOBP-IGO-SEAFDEC (Indian mackerel) national research agencies
Legal and policy reforms	<u> </u>
- Current	National fishery laws (may need updating) and related acts. Zoning measures (seasonal/spatial) exist, but it may not be strongly enforced Gear measures (e.g. mesh sizes) No policy on bycatch High on shore demand (fishmeal/aquaculture) for small/low value trash fish/bycatch High import tariffs fishmeal - drives local fishmeal price Surimi/ food technology increase drives demand for surimi species National fisheries instruments international and soft instruments CCRF

- Future	Develop a fishery information/science programme for key transboundary stocks/fisheries Zoning systems developed & enforced Gear measures enforced Remove incentives for targeting low value species (removal of fuel subsidies/remove import tariffs on fishmeal/remove minimum floor prices) Create Incentives to conserve or improve quality/value of catch Policy on "capacity cap" developed for identified segments of the fishery (e.g. vessels over xx GT, or limits on gear types).
	Incorporate TB management of Marine living resources into national tools Possible other from Policy review
Management measure	
- Current	National rules and regulations exist but not uniformly implemented Many of the regulations are targeted at conflict reduction, spatial exclusions, banning of controversial or destructive fishing methods Gear measures may be in place, but there is poor compliance Scientific data collection programmes exist in most countries but not targetted to management (or is not shared for management of straddling stocks)
- Future	Development of fishery management plans (or fishery improvement plan) for key/ important/commercial resources or fishing areas/zones. Reorient/develop fishery science/fishery information collection to support development of management plans Clearer strategy/policy in aquaculture development and related demand for feeds Identify offshore reduction fisheries (e.g. oil sardine) and manage/set limits Budget for management Bilateral agreements Monitoring Gear regulations (selectivity)
	effort management (closed seasons - space and time) harmonised measures Co management (community involvement) fisheries statistics - collection and management
Enforcement and compl	
- Current	Portside monitoring/inspections Some community level MCS (but patchy, may not result in legal action)

- Future	Mesh size, spatial and temporal measures compliance. Catch composition monitoring
	Regional/bilateral observer programme (for vessels operating in each
	other's EEZ).
	Reporting requirement for bycatch/low value species
	Minimum requirements for bycatch levels
	Officers need to be mobile
	bilateral agreements monitoring control and surveillance
	Dedicated MCS staff
Awareness and	Mesh size, spatial and temporal measures compliance.
communication	Catch composition monitoring
	Regional/bilateral observer programme (for vessels operating in each other's EEZ.
	Reporting requirement for bycatch/low value species
	Minimum requirements for bycatch levels
	Dedicated account to be and on the
	Dedicated community -based units target community, govt
	translations
	educational documents relating to species composition - identification,
	management objectives
Human capacity	Principal limitation is lack of "fishery management training" using modern
development	EAF approaches. Co-management skills and training needed at local level
	Species identification
	How to set bycatch limits?
	Officers role in MCS needs to be clarified and officers trained and resourced
	stock assessment
	data collection and management training EAF/CCRF training
Responsible agency	National Fisheries Departments (coordination and collection from national
, ,	fishery associations, provincial fisheries managers etc.)
	Sub-regional or regional bodies with coordinating function
Other	

тнеме: Overexplo	THEME: Overexploitation of marine living resources	
Agreed EcoQO: Fisheries and other living marine resources are restored and managed sustainably,		
ISSUE 3: High pr	ISSUE 3: High proportion of juvenile fish	
PART A		
Objective, target a		
Objective	Reduce proportion of catch of juvenile fish of economically important species in identified problem fisheries (or gear types?) Reduce the proportion of juvenile fish	
Target	(Short Term)% juvenile economic important species in catch reduces over (current) baseline Noting each fishery will have different targets: Percentage of juveniles of economically important species reduced by x% by 2025 Value of catch increased by x% by 20xx Fishing effort reduced by x % by 2020 use of destructive fishing methods reduced by x% by 20xx	
Indicator	% of juvenile economically important species in catches Juvenile species value of catch Number of boats(gear) targeting juvenile species Number of fishers	
Information needs	Catch statistics Catch/size composition Fisheries statistics (LF, catch stats etc) stock assessment (MCS), boat register	

PART B	
Actions	
Institutional arrangement	ents
- Current	1.National fisheries and agencies BOBPIGO western BOB (science/advice, no management advice) SEAFDEC eastern BOB (science/advice, no management advice) BOBLME fisheries working groups [SACEP/SCZMC – move to biodiversity/resources/reefs?]BOBP-IGO BOBP-IGO, SEAFDEC, IOTC, NACA, BIMSTEC, ASEAN, IOMAC, APFIC, SAARC, IUCN National research agencies
- Future	Practical arrangements that address resources shared by 2-3 countries Sub-regional working groups providing management advice Strengthening of SEAFDEC & BOBPIGO to coordinate members science programmes, convene management advisory committees and provide management advice Longer term a regional coordinating arrangement that focuses on non tuna species Regional body that can serve as an umbrella on fisheries management of TB species in the BOB BOBP-IGO (hilsa) BOBP-IGO-SEAFDEC (Indian mackerel) national research agencies
Legal and policy reform	IS
- Current	National fishery laws (may need updating) and related acts. Zoning measures (seasonal/spatial) exist, but it may not be strongly enforced Gear measures (e.g. mesh sizes) No policy on bycatch High on shore demand (fishmeal/aquaculture) for small/low value trash fish/bycatch High import tariffs fishmeal - drives local fishmeal price Surimi/ food technology increase drives demand for surimi species National fisheries instruments international and soft instruments CCRF

_	
- Future	Develop a fishery information/science programme for key transboundary stocks/fisheries Zoning systems developed & enforced Gear (mesh size) measures enforced Light attraction techniques "managed"/regulated Limits on juveniles in catch. Remove incentives for targeting low value species (removal of fuel subsidies/remove import tariffs on fishmeal/remove minimum floor prices) Create Incentives to conserve or improve quality/value of catch Policy on "capacity cap" developed for identified segments of the fishery (e.g. vessels over xx GT, or limits on gear types) Incorporate TB management of Marine living resources into national tools Possible other from Policy review
Management measure	
- Current	National rules and regulations exist but not uniformly implemented Many of the regulations are targeted at conflict reduction, spatial exclusions, banning of controversial or destructive fishing methods Gear measures may be in place, but there is poor compliance Scientific data collection programmes exist in most countries but not targetted to management (or is not shared for management of straddling stocks)
- Future	1Development of fishery management plans (or fishery improvement plan) for key/ important/commercial resources or fishing areas/zones. Reorient/develop fishery science/fishery information collection to support development of management plans Clearer strategy/policy in aquaculture development and related demand for feeds Market based awareness/regulation on minimum sizes for commercial species Budget for management bilateral agreements monitoring gear regulations (selectivity) effort management (closed seasons - space and time) harmonised measures Co management (community involvement) fisheries statistics - collection and management
Enforcement and compl	
- Current	Portside monitoring/inspections Some community level MCS (but patchy, may not result in legal action)

- Future	Mesh size, spatial and temporal measures compliance. Catch composition monitoring
	Regional/bilateral observer programme (for vessels operating in each other's EEZ.
	Reporting requirement for bycatch/low value species
	Minimum requirements for bycatch levels
	Officers need to be mobile
	bilateral agreements
	monitoring control and surveillance
Awareness and	Dedicated MCS staff Large scale fishers
communication	Small-scale fishers
5511111 4 1115 4 11511	Local government
	Ministerial/government
	Conservation/environment lobby
	Fish meal producers
	Aquaculture feeds producers
	Business sector
	Dedicated community -based units
	target community, govt
	translations
	educational documents relating to species composition - identification,
	management objectives
Human capacity	What capacity building is required and who will be the main target audience?
development	officers role in MCS needs to be clarified and officers trained and resourced
	stock assessment
	Data callestica and accomment to in a
	Data collection and management training EAF/CCRF training
Responsible agency	National Fisheries Departments (coordination and collection from national
Responsible agency	fishery associations, provincial fisheries managers etc.)
	Sub-regional or regional bodies with coordinating function
Other	

тнеме: Overexplo	itation of marine living resources	
Agreed EcoQO: Fisheries and other living marine resources are restored		
and managed sustainably,		
ISSUE 4: Changes in biodiversity, including vulnerable and endangered		
species		
PART A		
Objective, target a	nd indicators	
Objective Objective	Reduced effects of fishing on marine biodiversity , including vulnerable and	
	endangered species.	
	Destage his diversity including the see of culturable and endongered an exica	
Target	Restore biodiversity including those of vulnerable and endangered species % catch of key vulnerable species reduced	
Turget	% reduction in destructive fishing practices in identified critical habitats	
	XX vulnerable areas protected restore biodiversity including those of vulnerable and endangered species	
Indicator	Composition and % vulnerable species caught	
a.oato.	Amount / type of destructive fishing practices carried out in critical habitats	
	% area protected	
	Biodiversity index	
	population estimates for vulnerable and endangered species	
1.6 "		
Information needs	Size / species composition, information about the critical habitats (GIS information).	
	Information about the gear use.	
	Information on discards from the fishermen.	
	Biodiversity statistics	
	bloulversity statistics	
PART B		
Actions		
Institutional arrangeme	nts	
- Current	National environment agencies	
	National fisheries and agencies SACEP/SCZMC – move to biodiversity/resources/reefs	
	CMS (dugongs, cetaceans, etc.) IOSEA (turtle memorandum	
	IUCN (?) & NPOA shark	
	CITES	
	Global coral reef monitoring network, ICRI, ICRAN, CORDIO. BOBPIGO western BOB (science/advice, no management advice)	
	SEAFDEC eastern BOB (science/advice , no management advice)	
	BOBLME fisheries working groups	

	BOBP-IGO, SEAFDEC, IOTC, NACA, BIMSTEC, ASEAN, IOMAC, APFIC, SAARC, IUCN National research agencies
- Future	Practical arrangements that address resources shared by 2-3 countries Sub-regional working groups Strengthening of SEAFDEC & BOBPIGO to coordinate members science programmes, convene management advisory committees and provide management advice on fishery related impacts on biodiversity of endangered/vulnerable species. Longer term a regional coordinating arrangement that focuses on endangered or vulnerable species.
	Regional body that can serve as an umbrella on fisheries management of TB species in the BOB BOBP-IGO (hilsa) BOBP-IGO-SEAFDEC (Indian mackerel)
	national research agencies
Legal and policy reforms	
- Current	National signatories of IOSEA, CMS (turtle/dugong) National fishery/environmental laws (may need updating) and related acts. Zoning measures (seasonal/spatial) exist, but it may not be strongly enforced Gear measures (e.g. mesh sizes) No policy on bycatch No policy on shark Ballast water management (?) (signatories to IMO convention) Enforcement of CITES regulations National fisheries instruments National environmental instruments international and soft instruments CCRF CBD
- Future	Develop a fishery information/science programme for key endangered or vulnerable species Spatial /temporal protection measures /zoning systems developed & enforced for specific habitats Develop NPOA shark National regulations on protected species harmonized with CITES concerns/IUCN redlists etc. Incorporate TB management of Marine living resources into national tools Possible other from Policy review

Management measure			
- Current	National rules and regulations exist but not uniformly implemented Environmental measures for conservation may not be harmonized or integrated to fishery management measures Scientific data collection programmes exist in most countries but not targetted to management for management of straddling stocks CITEs transboundary regulations Some national measures for protection/conservation Some MPA/Protected areas established Enhancement activities using aquaculture produced seed (e.g. sea cucumbers, sea horse, clown fish, giant clam etc.) 1. What management actions are currently used?		
- Future	Conservation plans endangered/vulnerable resources/areas Reorient/develop fishery science/fishery information collection to support development of management plans Disincentive/awareness raising on trade in CITES/protected species - non consumption /sale (corals/seashells) Market based awareness/regulation on minimum sizes for commercial species Tourisms/MPA measures also restrict sale /consumption of protected species. MPA measures relating to fisheries strengthened (Environment/fishery Agency coordination) Budget for management bilateral agreements monitoring gear regulations (selectivity) effort management (closed seasons - space and time) harmonised measures Co management (community involvement) fisheries statistics - collection and management		
Enforcement and compl	Enforcement and compliance		
- Current	Border controls/inspections (CITES)		
- Future	Conservation measures enforced in country Strengthen regulations on management of MPAs		
	Harmonized list of protected/conserved species Promote management effectiveness tracking tools for MPAs. Officers need to be mobile bilateral agreements monitoring control and surveillance Dedicated MCS staff		

Awareness and	Tourism education, Large scale fishers/Small-scale fishers, Local government
communication	Ministerial/government
	Conservation/environment lobby, Tourism sector
	Business sector Dedicated community -based units
	Target community, govt
	translations
	educational documents relating to species composition - identification,
	management objectives
	- management expectives
Human capacity	Principal limitation is lack of "fishery management training" using modern
development	EAF approaches including vulnerable/endangered specie issues
development	Co-management skills and training needed at local level
	Species identification
	Communication of vulnerable/endangered species conservation needs –
	including interaction with fishery activities
	Officers role in MCS needs to be clarified and officers trained and resourced
	stock assessment
	data collection and management training
	EAF/CCRF training
Responsible agency	National Environmental Departments
	Wildlife conservation Departments
	National Parks/MPA
	National Fisheries Departments (related to fishing effects)
	Constitution of the state of th
	Sub-regional or regional bodies with coordinating function for
	endangered/vulnerable species
Other	endangered/vullierable species
Other	

THEME: Degradation of critical habitats		
Agreed EcoQO: Degraded, vulnerable and critical marine habitats are restored, conserved and maintained		
ISSUE 1: Loss and	ISSUE 1: Loss and degradation of mangrove habitat	
PART A		
Objective, target ar	nd indicators	
Objective	Protect existing mangrove habitat and increase mangrove coverage and quality	
	Restore and improve the extent and biodiversity of mangrove habitats	
Target	xx% of lost area restored by year xxxx	
	Noting each country will have different targets:	
Indicator	CBD target increase by x% by 20xx. Mangrove coverage, Diversity index	
mulcator	(CBD) coverage of mangrove; mangrove biodiversity index; associated species	
Information needs	GIS map of mangrove coverage Species/diversity index	
	Biodiversity of mangroves and associated species statistics mangrove stats	

тнеме: Degradation	THEME: Degradation of critical habitats	
•	Agreed EcoQO: Degraded, vulnerable and critical marine habitats are restored, conserved and maintained	
ISSUE 2: Degrada	ISSUE 2: Degradation of coral reefs	
PART A		
Objective, target an	nd indicators	
Objective	Monitor & protect existing coral reef habitats and prevent destructive activities Restore coral reef area and biodiversity	
Target	Xx coral reef areas protected Coral health indicators improved over baseline Climate change related impacts/effects monitored Destructive activities on coral reefs stopped/banned Noting each country will have different targets: restore x% of degraded coral reefs 20xx.	
Indicator	Coral reefs protected Coral cover & health	

	Diversity index Area of restored coral reef biodiversity index
Information needs	associated species index Coral cover, visual census of fish GIS mapping of protected areas Species/diversity index Existence of banned activity list/legislation Biodiversity statistics coral stats associated species surveys

THEME: Degradation of critical habitats	
Agreed EcoQO: Degraded, vulnerable and critical marine habitats are restored, conserved and maintained	
ISSUE 3: Loss and	damage to seagrass
PART A	
Objective, target ar	nd indicators
Objective	Monitor & protect existing seagrass habitat's and prevent destructive activities
Townsh	Restore seagrass area
Target	Xx seagrass areas protected seagrass health indicators improved over baseline Climate change related impacts/effects monitored
	Destructive activities on seagrass beds stopped/banned
	Noting each country will have different targets: - restore x% of degraded seagrass 20xx.
Indicator	Seagrass areas protected
	seagrass cover & condition Diversity index
	Diversity index
	Area of restored
	associated species index rate of production

Information needs	Seagrass cover,
	GIS mapping of protected areas
	Species/diversity index
	Existence of banned activity list/legislation
	Seagrass stats
	associated species surveys

Agreed EcoQO: Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health

ISSUE 1: Sewage borne pathogens and organic load		
PART A		
Objective, target and indicators		
Objective	Reduced sewage loadings from coastal urban and industrial sources,	
	Reduce sewage borne pathogens and organic load.	
Target	E coli loading in coastal waters reduced to xxx	
	TN/TP/COD loadings reduced	
	Local eutrophication reduced	
	Noting each country will have different targets:	
	reduction in the pathogen load by x% of by 20xx.	
	reduction in the organic load by x% of by 20xx	
Indicator	E coli loading in coastal waters	
	TN/TP/COD loadings	
	Eutrophication	
	Local Fish kills/HABS	
	Coliforms (pathogens)	
	BOD (organic load)	
	incidence of water-borne disease	
	Eutrophication levels	
Information needs	Coastal WQ monitoring	
	HAB monitoring	
	- The monitoring	
	Water quality monitoring	
	health records	

THEME: Pollution (& water quality)

Agreed EcoQO: Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health

ISSUE 2: Solid wasto/marino littor

ISSUE 2: Solid Waste/marine litter		
PART A	PART A Objective, target and indicators	
Objective, target a		
Objective	Reduction of solid waste & marine litter	
	Reduce solid waste and marine litter.	
Target	Comprehensive solid waste management plans in xx percent of coastal communities/cities/towns	
	Reduction of litter/solid waste from tourism/shipping	
	Reduction of fisheries generated litter/discarded gears	
	, v	
	Noting each country will have different targets:	
	solid waste in the coastal environment reduced by x% of by 20xx.	
	marine litter in the coastal and inshore environment reduced by x% of	
	by 20xx. IMO?	
Indicator	Beach/coastal water litter surveys	
	Litter in trawls	
	Urban/rural solid waste management plans	
	Micro-particulate/plastic components in food chain	
Information needs	Beach surveys	
	Fishers surveys	
	Assessments of tissue samples for plastics/gut contents	

Agreed EcoQO: Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health

ISSUE 3: Increasing nutrient inputs

PART A		
Objective, target ar	Objective, target and indicators	
Objective	Reduction of nutrient loads in coastal waters Reduce nutrient inputs.	
Target	Reduced dissolved nutrient (N&P) loadings from agricultural (riverine) runoff on coastal waters by xx percent Reduced dissolved nutrient (N&P) loadings from aquaculture discharges on coastal waters by xx percent Reduced nutrients loadings from industrial sources (to be identifed) Harmful algal bloom incidents reduced. Number/per year or area affected. Water quality related fish kills reduced Hypoxic areas reduced Noting each country will have different targets: nutrient inputs from point sources in the coastal environment reduced by x% of by 20xx. nutrient inputs from non-point sources in the coastal environment reduced by x% of by 20xx.	
Indicator	TN TP COD Water quality measurements No fish kills Hypoxic area monitoring. Eutrophication levels (Chl, BOD) Secchi depth	
Information needs	Measures of the above. HAB monitoring Satellite WQ imagery Stats on point and non-point sources of pollution water quality surveys categorisation of the nutrients	

THEME: Pollution (& water quality)

Agreed EcoQO: Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health

ISSUE 4: Oil pollution

ISSUE 4: Oil pollution		
PART A	PART A Objective, target and indicators	
Objective, target ar		
Objective	Reduction of incidents of oil spillage/discharge. And adequate response capacity to oil spillage events Reduce oil pollution.	
Target	Oil spill contingency plans in place in xx countries/regions Regulations on shipping/oil exploration industry related oil discharges enforced Capacity to respond to oil spill exists Noting each country will have different targets: OAG in the coastal environment reduced by x% of by 20xx. Reduction in the numbers of tarballs by x% by 20xx MARPOL targets	
Indicator	Tarballs Beach tar Oils slick/Oilspills monitoring Existence of National/regional plans Tarballs; pollution; dissolved oils in water	
Information needs	Monitoring Survey of point sources; water quality surveys; log of pollution events	

Agreed EcoQO: Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health

ISSUE 5: Persistent organic pollutants (POPs) and persistent toxic substances (PTSs)

PART A	PART A	
Objective, target a	Objective, target and indicators	
Objective	Reduction of POP/PTS in marine life	
	Compliance with international norms on movement and management of	
	POP/PTS in the maritime zone	
	Reducing POPs and PTSs.	
Target	Reduce concentrations in indicator species by xx percent over baseline	
901	Development of national plans/legislation for management/control of POPs	
	and identified PTS	
	Compliance/sign up/ratification to international treaty/conventions on	
	movement/management of POP/PTS (including specific hazards)	
	Bay-wide information sharing on POP/PTS hazards	
	Noting each country will have different targets:	
	Stockholm / other (Basel) convention	
Indicator	Existence of national plan	
	Concentration of POP/PTS in indicator species	
	Stockholm / other (Basel) convention requirements.	
Information needs	Programme for monitoring POPs/PTS in indicator species/environment	
	National plan/legislation	
	Charles Inc. (athor/Dass) agrees than passes	
	Stockholm /other(Basel) convention needs.	

THEME: Pollution	(& water quality)	
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Agreed EcoQO: Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health

ISSUE 6: Sedimentation

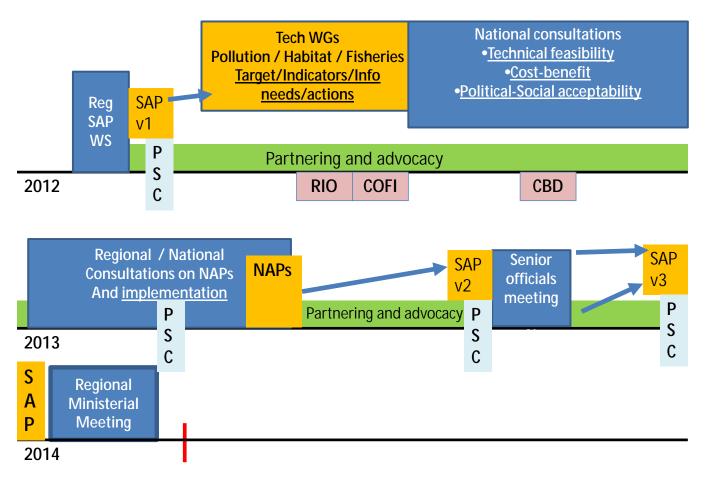
1330E o. Scamentation		
PART A		
Objective, target ar	Objective, target and indicators	
Objective	Reduction of impact of sediments on coastal environment (particularly those most sensitive to high or toxic sediments) Reduce sedimentation load into coastal habitats.	
Target	Effluent and effluent management from coastal land-based aquaculture meet national standards Coral reef/seagrass/mangrove habitats are unaffected by coastal sediment loadings Sediment management measures in place for industrial activities impacting receiving waters EIA regulations developed/strengthened Noting each country will have different targets:	
	 sedimentation inputs from point sources in the coastal environment reduced by x% of by 20xx. Sediment inputs from non- point sources in the coastal environment reduced by x% of by 20xx. 	
Indicator	WQ monitoring of coastal aquaculture Reef/seagrass monitoring Existence of national standards for aquaculture effluents and effluent management Legislation for industrial activities that produce high sediment loads to coastal waters (e.g. mining, dredging, reclamation) Secchi depth; particulate matter; TDS; BOD/COD	
Information needs	Monitoring programmes for coastal aquaculture, coastal industry Stats on point and non-point sources of pollution water quality surveys	

Agreed EcoQO: Coastal and marine pollution and water quality are controlled to meet agreed standards for human and ecosystem health

ISSUE 7: Heavy metals

1330L 7. Heavy metals				
PART A				
Objective, target and indicators				
Objective	Reduction of impact of heavy metals on coastal environment /ecosystems Reducing heavy metals in coastal ecosystems and key marine species.			
Target	Concentration of key heavy metals in indicator species is reduced. Management measures in place for heavy metal discharge from industrial activities (including offshore oil /gas production) that impact receiving waters EIA regulations developed/strengthened Noting each country will have different targets: levels of metals in aquatic ecosystems reduced.			
Indicator	WQ monitoring of indicator species (benthic, pelagic, nearshore offshore) Existence of national standards for industrial effluents and effluent management Legislation for industrial activities that produce high heavy metal to coastal waters (e.g. mining, dredging, oil exploration etc.) Target species (fish and benthos) water quality			
Information needs	Monitoring programmes for maritime and coastal industries and construction. WQ monitoring programme HM monitoring programme in marine environment Identify target species for monitoring bioaccumulation rates.			

Appendix V Draft SAP completion process



Reg SAP WS (Regional SAP process Development workshop - this meeting); PSC (Project Steering Committee); RIO (RIO+20 meeting); COFI (FAO Committee on Fisheries)CBD (Biodiversity convention - conference of the parties).

Characteristics of the SAP completion process - a working document for discussions :

- 1. SAP focus on regional, transboundary issues
- 2. Countries will have different National Action Plans that contribute to the objectives to address issues under each EcoQO. Actions will be selected by each country on the basis of technical feasibility, cost-benefit (including environmental cost) and political-social acceptability

3. Advocacy messages will tailored for target audiences

- regional activities versus bilateral
- advantages of action versus no action
- · international obligations (eg. CDB)
- Government targeted advocacy
- · Advocacy at international events
- · Tailor, where possible, actions to meet "summit/CBD" objectives
- · TDA to initiate advocacy

4. Project partnering

- SEAFDEC / BOBP-IGO (Fisheries)
- · UNEP-GPA / World Bank (Pollution)
- · IUCN / MFF / UNEP (Habitat)

5. Cross cutting features

Capacity building
Education - communications
Youth
Enforcement

Players

Players	
WHO	ROLE
PSC	Guidance, high level and persistent advocacy
NC's	Managing the process in-country
IMC	Important - talk to PSC
Permanent Secretaries / Advisers	Establish a line of communication and feed with high quality
	materials
Ministers	One meeting, facilitated by FAO-ADG
Regional Bodies	BOBLME in "other matters" of the meeting agenda's
ASEAN, SEAFDEC, BOBP-IGO, IOTC, BIMSTEC, SAARC, IOTC,	Cost-benefit analysis / Environmental valuation
IUCN etc	Political-social feasibility
Project partners / donors	Collaborative actions
FAO, BOBP-IGO, SEAFDEC, IUCN, UNEP-GPA, Worldbank,	
GEF, NORAD, SIDA	
Regional expert bodies as specialist assistance MIMA, BCAS,	Technical Feasibility
University, IUCN, WorldFish, BOBP-IGO, UNEP, GPA, SAARC	Cost-benefit analysis / Environmental valuation
CZMC	Political-social feasibility
Major Events	Promotional papers
 RIO+20 / COFI / CBD / others 	
GEF Focal Points	Establish a line of communication and feed with high quality
	materials
	Expect advocacy
FAO-Reps	Establish a line of communication and feed with high quality
	materials
	Expect advocacy
FAO-ADG	Establish a line of communication and feed with high quality
	materials
	Expect advocacy
	Facilitate Minister meeting

Risks

Individuals move	L	three PSC members will move in the next 15 months (India, Bangladesh and Sri Lanka)
Countries withdraw support	?	could the SAP involve fewer than 8 countries

Challenges

Due to budget allocation to SAP development, other BOBLME activities (other than SAP development) are reduced

Elections affect ministerial action

India - May 2014 (and govt processes are disrupted from 6 months before), Bangladesh - Nov/Dec 2013. Maldives - Aug 2013, but likely to be earlier than this. Malaysia - 2012.

Appendix VI Draft SAP document framework

Revised DRAFT FRAMEWORK FOR THE BOBLME STRATEGIC ACTION PROGRAMME (SAP)

Policy Brief / Executive Summary? (5 pages)

Questions:

Why must the SAP be implemented? What are the consequences if not implemented? What is the vision?
 What are the objectives, actions and their policy implications? What are the policy reforms required?
 What are the costs? How will costs be shared among partner including funding agencies and countries?
 What is the significance of the BOBLME in the short term (2-5 years) and the long term – 30 years.

PREFACE – the political narrative - customised if necessary for each country (to be digested in 30 seconds) Rapid changes in the coastal areas of the BOBLME are creating both challenges and opportunities for the people. The transboundary diagnostic analysis (TDA) confirmed by the technical experts reveals how the BOBLME countries and their coastal population have arrived at the crossroads of the present and the future. Having understood how we got there it is possible to set priorities for addressing the prevailing challenges and benefitting from the opportunities provided by the wide range of available people and resources. Since the uncertainties associated with the complex BOBLME are numerous, this Strategic Action Programme (SAP) provides both a vision and a strategy. The Need for an Ecosystem-based Policy.

1. INTRODUCTION

The BOBLME Region – The People, Resources and Opportunities

- The BOBLME Vision
- Enough fish for future generations.; Healthy coastal and near-shore marine habitats; Reduced pollution from agriculture, industry and large coastal cities; Coastal communities resilient to the impacts of climate change; Stakeholders working together for the common good.
- Existing partnerships that are already working toward expectations in the SAP

Uniqueness

- Geological, geomorphological, oceanographic, maritime trade, culture, art, architecture that bind;
 Prevailing and anticipated economic growth trends to 2025; The significance of the BOB sea in national and regional interests; plate tectonics and uncertainties
- Demography the youth dividend; health (food security) and education status of coastal fishing communities – disparity with national averages?; cross-cutting developmental issues related to BOBLME themes

Existing working partnerships

· Existing major regional partnerships to build on

2. STATE OF THE BOBLME AND CHALLENGES

• Background (from the executive summary in the TDA); Diagnosis and analysis of causes that must be addressed in order to make a difference; Confirmed TDA – the foundation of the SAP

3. ACTION PROGRAMME – THE RATIONALE FOR REGIONAL COOPERATION

- Governance; cross-cutting nature, communication and awareness; pace of development change in the BOBLME region, ecosystem complexity, unanticipated consequences of rapid development which ignored ecosystem complexity, costs of reversing impacts / nested sub-systems / irreversibility of sub-system decline.
- Action Programme: Overexploitation of marine living resources; Action Programme Critical Habitats;
 Action Programme Pollution (Water Quality)

4. Benefits and Costs

NAP – its pivotal role

5. **SAP IMPLEMENTATION**

- Bilateral partnerships the manner in which they integrate with EAF;
- Sub-regional partnerships and their contribution
- Funding mechanisms for LME-wide partnerships exposure, vulnerability and risk mapping climate change adaptation (best done regionally) to link with the hazard monitoring system already in operation.
- Monitoring & Evaluation

6. RISKS AND RISK MITIGATION

• Balance between long-term and short-term priorities. What are the short-term priorities that can increase political acceptability by merging with (i) ongoing regional projects; (ii) strengthening agency mandates which require capacity development; Communication and awareness with stakeholders; Advocacy

Appendices:

- Details of action plans
- · Success stories of partnerships and programmes that have worked in providing environmental benefits



Bangladesh, India, Indonesia, Malaysia, Maldives, Myanmar, Sri Lanka and Thailand are working together through the Bay of Bengal Large Marine Ecosystem (BOBLME) Project and to lay the foundations for a coordinated programme of action designed to improve the lives of the coastal populations through improved regional management of the Bay of Bengal environment and its fisheries.

The Food and Agriculture Organization (FAO) is the implementing agency for the BOBLME Project.

The Project is funded principally by the Global Environment Facility (GEF), Norway, the Swedish International Development Cooperation Agency, the FAO, and the National Oceanic and Atmospheric Administration of the USA.

For more information, please visit www.boblme.org

























