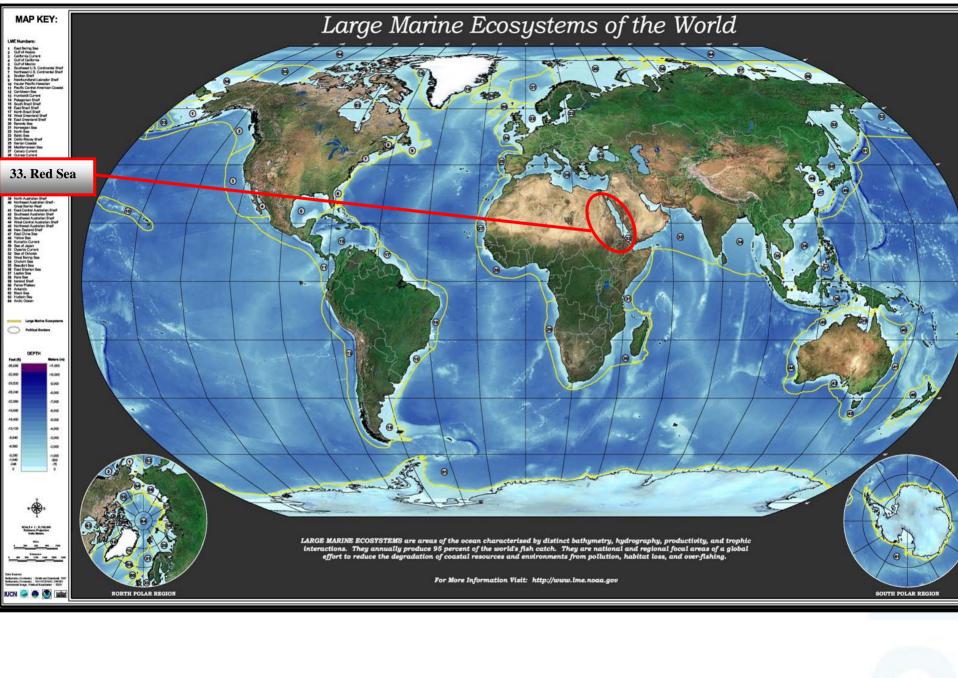


The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden

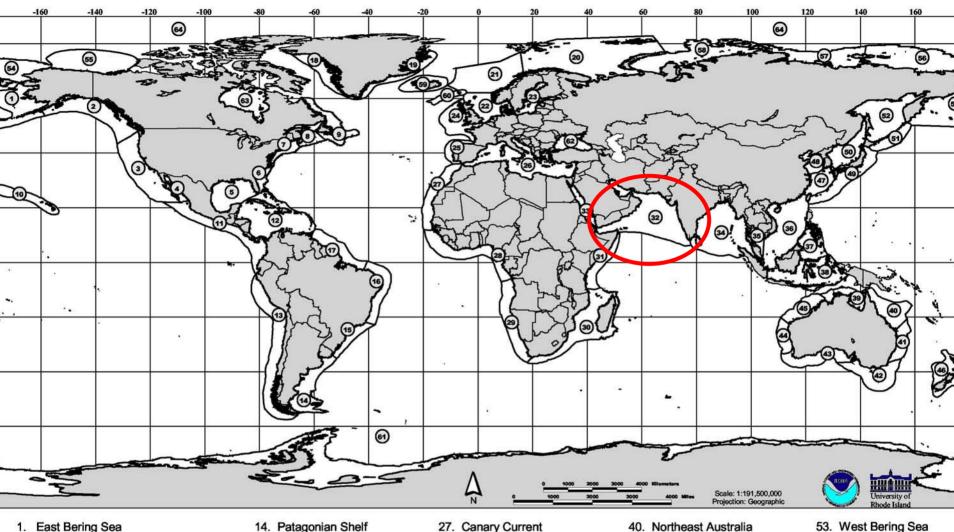
Khulood Tubaishat







Large Marine Ecosystems of the World



- East Bering Sea
- Gulf of Alaska
- California Current Gulf of California
- Gulf of Mexico
- Southeast U.S. Continental Shelf
- Northeast U.S. Continental Shelf
- Scotian Shelf
- Newfoundland-Labrador Shelf
- Pacific Central-American
- Insular Pacific-Hawaiian
- Caribbean Sea

42 Uranhaldt Cumani

- South Brazil Shelf
- East Brazil Shelf
- 17. North Brazil Shelf
- West Greenland Shelf
- 19. East Greenland Shelf 20. Barents Sea
- 21. Norwegian Sea
- 22. North Sea
- 23. Baltic Sea
- 24. Celtic-Biscay Shelf 25. Iberian Coastal
- Sulu-Celebes Sea Indonesian Sea

20 Month Australia

Bay of Bengal

Arabian Sea

Red Sea

28. Guinea Current

30. Agulhas Current

Benguela Current

Somali Coastal Current

- 35. Gulf of Thailand
- 36. South China Sea
- 48. Yellow Sea
- 47. East China Sea

East-Central Australia

42. Southeast Australia

43. Southwest Australia

45. Northwest Australia

New Zealand Shelf

West-Central Australia

- Kuroshio Current
- 50. Sea of Japan 51. Oyashio Current

EQ Con of Olehotole

- 61. Antarctic 62. Black Sea

59. Iceland Shelf

54. Chukchi Sea

Beaufort Sea

57. Laptev Sea

58. Kara Sea

56. East Siberian Sea

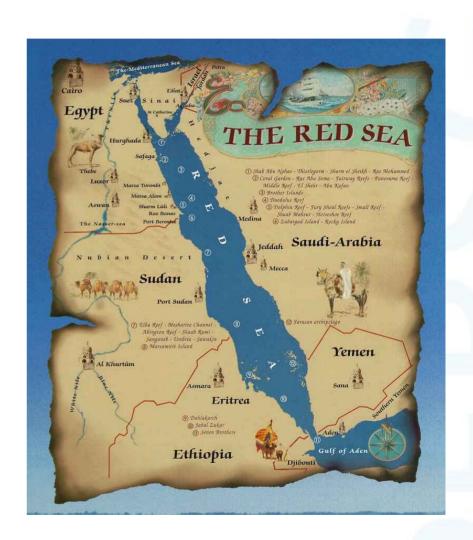
Faroe Plateau

- 63. Hudson Bay
- 64. Arctic Ocean



International importance

The RSGA form an important transport route between the Far East and Europe for the carriage of oil and other commodities.



International importance

The RSGA are treasured throughout the world for their natural beauty and their biological diversity. It includes a significant number of animals and plants that are only found here.



- There is a great variety of reef types in the Red Sea with a structural complexity unmatched on Earth. The diversity of corals is greater than anywhere else, and the number of species that are confined to the Red Sea and found nowhere else is extremely high.
- The Gulf of Aden, one of the biologically least known branches of the Indian Ocean, holds fishery resources of international importance.















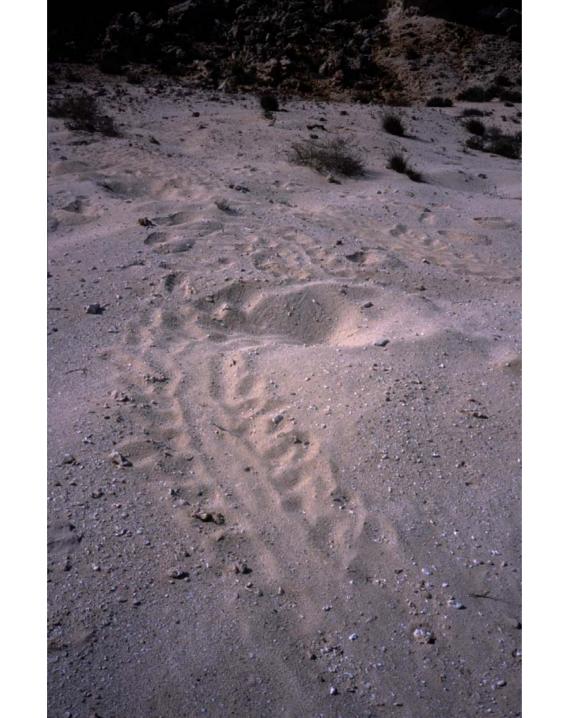














Although the Red Sea is still one of the least ecologically disturbed seas relative to other enclosed water bodies, it is in increasing jeopardy. There is a growing risk of marine pollution, and of environmental degradation from rapidly expanding maritime activities.



•30% of the annual trade in crude oil is carried through the Red Sea and Gulf of Aden





Economic importance

- The relatively pristine seas offer huge tourist potential. The corral reefs of the Sinai Peninsula alone generated an estimated US\$ 1.8 billion in tourist revenue in 2000.
- Fisheries employ 89,000 fishermen in the region and generated almost US\$ 30 million in export revenue in 2000. Marine aquaculture is a rapidly growing industry in the region.
- The Red Sea has extensive offshore nonpetroleum mineral deposits that are thought to be of considerable value







- PERSGA started back in the early 1970's when the Arab League Educational, Cultural and Scientific Organization (ALECSO) initiated the Programme of the Environment of the Red Sea and Gulf of Aden;
- In 1982 Jeddah Convention was signed
- In 1995, the declaration of the Regional Organization was made.

Consolidated Jeddah Convention

- Jeddah Convention, formally titled "Regional Convention for the Conservation of the Red Sea and Gulf of Aden Environment". – 1982
- "Action Plan for the Conservation of the Marine Environment and Coastal Areas in the Red Sea and Gulf of Aden".— 1982

Consolidated Jeddah Convention

- "Protocol Concerning Regional Cooperation in Combating Pollution by Oil and Other Harmful Substances in Cases of Emergency" was signed along with Jeddah Convention in February 1882.
- "Protocol Concerning the Conservation of Biological Diversity and the Establishment of Network of Protected Areas in the Red Sea and Gulf of Aden and - 2005;
- "Protocol Concerning the Protection of the Marine Environment from Land-Based Activities in the Red Sea and Gulf of Aden-2005.



The Region

Heterogeneous group

	GDP (USD bn.)	GNI per capita (USD)	GDP per capita (PPP adjusted)	
Djibouti	0.6	910	N.A.	
Egypt	82.4	1390	3810	
Jordan	9.9	1850	4180	
Saudi Arabia	214.7	9240	12660	
Somalia	N.A.	N.A.	600	
Sudan	17.8	460	1740	
Yemen	10.8	520	800	



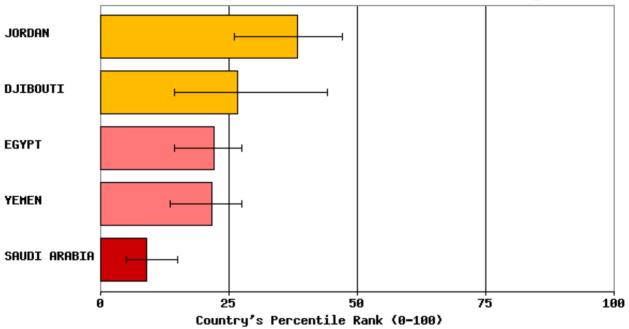
Socioeconomic and Marine Industry Activity Indexes for LMEs

LME	LME#	Socioeconomic Index (HDI)	Fishery aquaculture Index	Tourism Index	Ship and Oil Index	Marine Indust Activit Index
Red Sea	33	62.564	0.268	5.583	1.381	1.999



Governance

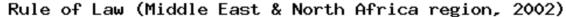
Voice and Accountability (Middle East & North Africa region, 2002)

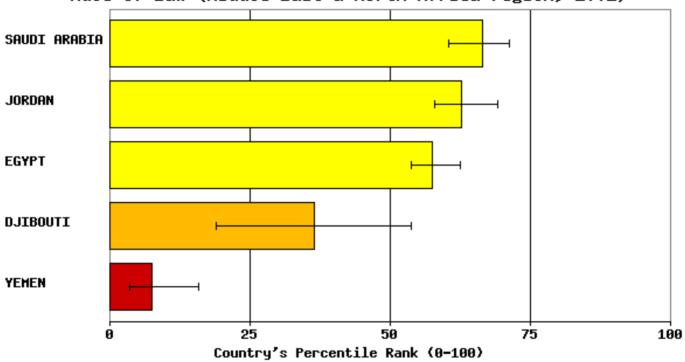


Source: D. Kaufmann, A. Kraay and M. Mastruzzi, 2003: Governance Matters III: Governance Indicators for 1996–2002 (http://www.worldbank.org/wbi/governance/pubs/govmatters3.html)



Governance

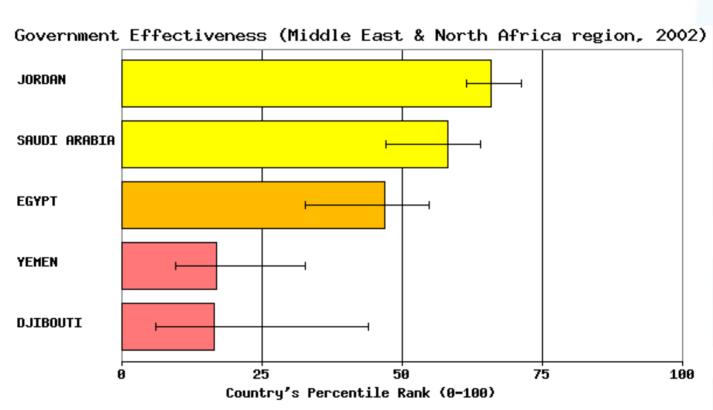




Source: D. Kaufmann, A. Kraay and M. Mastruzzi, 2003: Governance Matters III: Governance Indicators for 1996–2002 (http://www.worldbank.org/wbi/governance/pubs/govmatters3.html)



Governance



Source: D. Kaufmann, A. Kraay and M. Mastruzzi, 2003: Governance Matters III: Governance Indicators for 1996–2002 (http://www.worldbank.org/wbi/governance/pubs/govmatters3.html)



The Strategic Action Programme for the Red Sea and Gulf of Aden

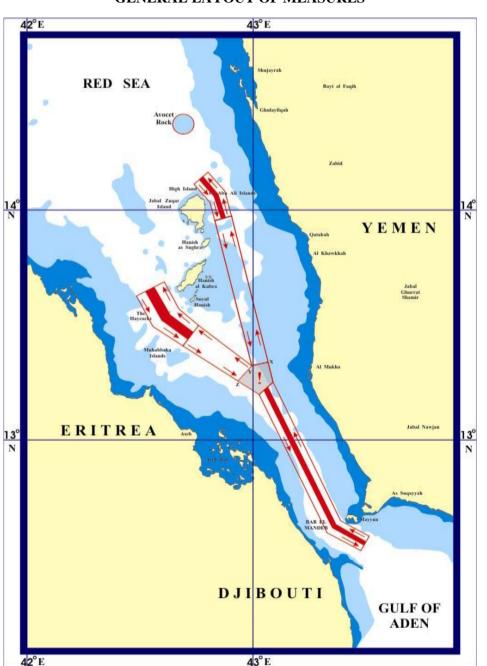
1999 - 2005





New traffic Separation Scheme – Southern Red Sea

ROUTEING MEASURES – SOUTHERN RED SEA GENERAL LAYOUT OF MEASURES





الهيئة الاقا للمحافظة البحر الأح وخليج عد

ول على القصمة الكاملة، زوروا www.persga.org

بحريَّة الفريدة مواطنها الطبيعيَّة وتتوَّعها الحيوي في خطراًن الأوان لقوانين فعَّالة من أجل إنقاذ حياة البحر.





- Port State Control
- Navigation aids, including lighthouses
- The Regional Contingency Plan
- MEMAC
 "article III of the Combating Oil Pollution Protocol: to
 establish the Marine Emergency Mutual Aid Centre
 (MEMAC)."



Living Marine Resources

The Status of Living Marine Resources in the RSGA Region - 2002



Living Marine Resources

Shark fisheries management

Preparation of an Identification Guide to the Sharks and Batoid Fishes of the RSGA

Training in shark identification and the measurements required for stock assessment (standardisation of methods with the region)





Living Marine Resources

The establishment and enhancement of a regional training centre in Aden (MSRRC/FTI)





EIA Guidelines for Ornamental Fish Trade



Habitat & Biodiversity Conservation

- Standardised <u>Regional Survey Methods</u> A comprehensive Manual
- Habitats and Biodiversity surveys
- Regional and national conservation Plans



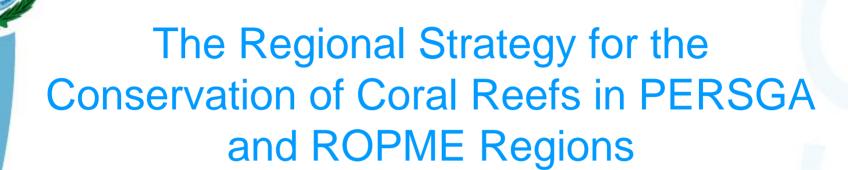














The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden

(PERSGA)

Regional Action Plan for the Conservation of Marine Turtles and their Habitats in the Red Sea and Gulf of Aden



Network of Marine Protected Areas

Regional Master Plan for a Network of Marine Protected Areas now complete

Rapid Assessment Surveys have been carried out at the proposed MPAs in Somalia and site-specific surveys at the MPAs in Djibouti, Somalia, Sudan and Yemen

Site Specific Master Plans were prepared

















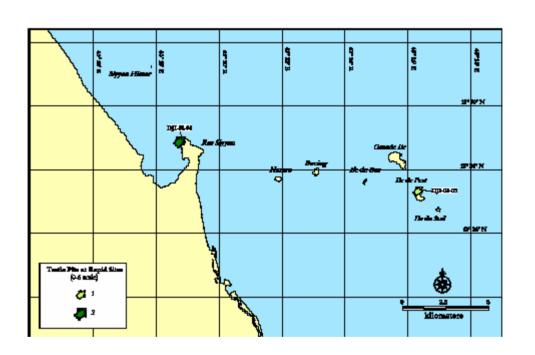




Integrated Coastal Zone Management

Regional Integrated Information Management System - IIMS









ICZM Model Activities in Yemen, Djibouti and Sudan:

 National ICZM Plans were produced and adopted as national regulation

The ICZM Hand Book for the PERSGA Region- 2006











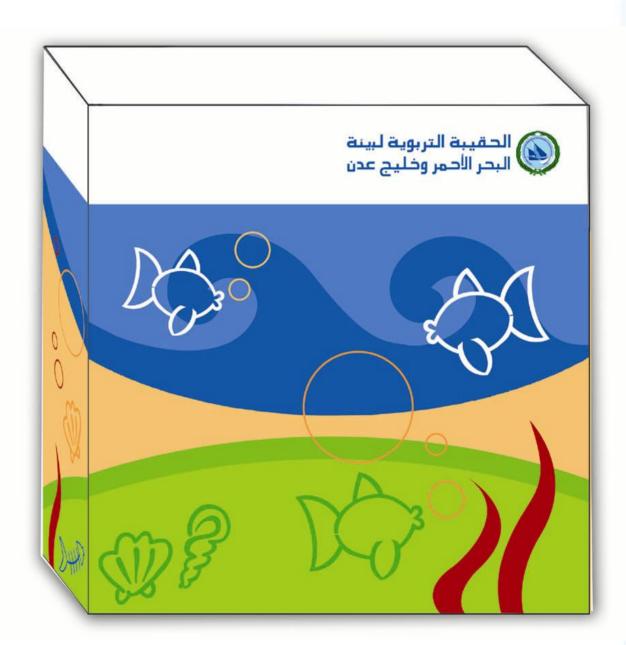




The Environmental Education Learning Supplement - EELS

"Because I care"







....about the conservation of the environment of the Red Sea and Gulf of Aden

Target Group:

Students age: between 12 to 16 years old;

Female and male schools



Teacher training workshops





Teacher training workshops: pre-testing of the materials





Training workshops - Teacher and students together: pre-testing of the materials





Training workshops - Teacher and students together: in the filed pre-testing the experiments





Training workshops - Teacher and students together: in the field pre-testing the experiments



 A Teacher's Book (Reference Book)



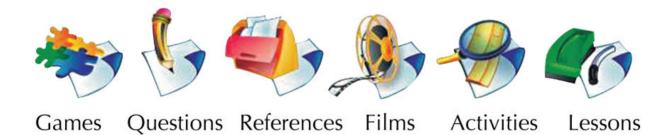
A Student Book (5 copies in each kit)



ontents:

An E-learning version of the student book that cover each of the lessons in an interactive way

Contents of the e-Learning Version of the EELS:











Contents:

Some experiments tools (thermometer, PH measurement instrument, transparency instrument)



Glossary book

 Album of related pictures that reflects the beauty of the RSGA





Contents:



Educational Video



Promotional materials

Five posters



An educational puzzle





Capacity Building















Community Participation Programme

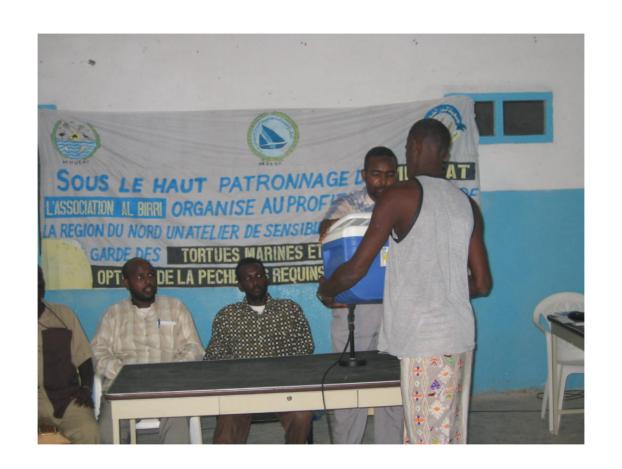


































Sea to Sea Forum





There I am standing by the shore of a swiftly flowing river and I hear a cry of a drowning man. So I jump into the river, put my arms around him, pull him to shore and apply artificial respiration.

Just when he begins to breath, there is another cry for help.



So I jump into the river, reach him, pull to shore, apply artificial respiration, and then just as he begins to breath, another cry for help.



So back in the river again, reaching ,pulling ,applying, breathing, and then another yell.

Again and again, without end goes the sequence.



I suddenly realize that I am so busy jumping in, pulling to shore, applying artificial respiration,

that I have no time to see who the hell is upstream pushing them all in"



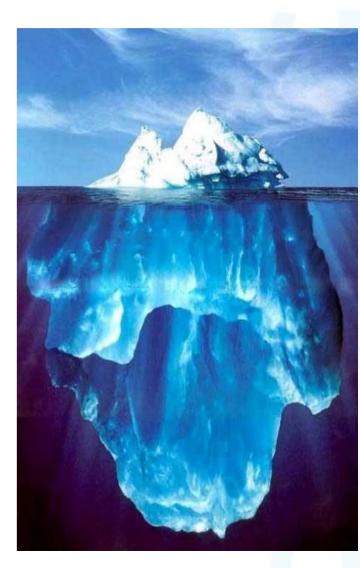
The effectiveness and added value - Synthesis and lessons learned:

The hidden intangibles of local power structures and cultural factors are most difficult to manage in development projects.

Through adaptive management, we have absorbed these intangibles and used them as part of the process

Objectives
Actions
Technical Data
GIS
Strategy

Assumptions
Values
Emotions
Power
Spirit
Beliefs
Agendas
Interests





- Human factor in project management
- Leadership... Champions

مكون التوعية البيئية والمشاركة الشعبية – اللقاء الأول القاهرة $_{2000}/_{6}/_{29}$



always we will find away CARD PAP Ada كُون النوية إليه المالية وعدا كما ميانا before the work shop PA was a fashion by now it is an action النَّرام يُو الكهيال القادمة Together We Act Fogether We change وجهورنا لجهودكم مكامان " حارا كور له ولاناما علب واحد نحامظ على بحروا جو 64/6 والنم كل المعون طاكما نجن باليدة Public awarness of the statelolders of the I Momise you that I will do what is lin my purer to الله الني معينا unique environment of la Red Sea and Gulf of dans in the Country (my hat Affel) Claan Sea د. طهلط هريمون

The relevance of a regional programme depends on its convincing rationale for countries to work together; only programmes with a strong, self-evident rationale for adopting regional approach can overcome the challenges posed by multi-country efforts

- The SAP has helped to generate and share knowledge, but necessarily to translate that knowledge into national policies and plans;
- Lack of clarity about the role of PERSGA and the national organizations has impeded implementation;
- To succeed, a regional programs need to link to national institutions;
- It takes time to build effective between regional and national activities;
- Programs work best when implemented at a national level, and planned and coordinated at a regional level;
- We have been active, but... how effective?

- There is no mechanism to evaluate a programe as whole (on regional level) rather than on country level;
- Accountable governance arrangements



PERSGA Operational Framework 2006-2010

The groundwork for regional cooperation has been carried out

Strategies and plans have been prepared

It is the time for implementation and on ground activities and national interventions



Classification

	Low Socioeconomic development	Medium socioeconomic development	High socioeconomic development
High marine industry			
Medium marine industry			
Low marine industry		33. Red Sea	

How to mainstream biodiversity conservation in economic development and poverty alleviation efforts

Economic Valuation



Leadership forum for coastal Governance

Pollution from land base activities