



PERSGA

الهيئة الإقليمية للمحافظة على
بيئة البحر الأحمر وخليج عدن

PERSGA Recent Efforts to Implement Strategic Directions of the RSAPs for 2013-2016

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Strategic Direction 3 :
**Strengthen capacities at the regional
level and national level on marine and
coastal governance**

Extending regional legislation to tackle governance gaps and issues

Review assessments of national legislations and policies to support governance and co-management

Develop PERSGA Tracking System

Jeddah Convention

Protocol Concerning Oil and HNS Pollution

1982

Protocol Concerning Biodiversity Conservation and MPAs Network

Protocol Concerning Protection from LBAs

2005

Protocol Concerning Exchange of Equipment and Personnel During Emergency

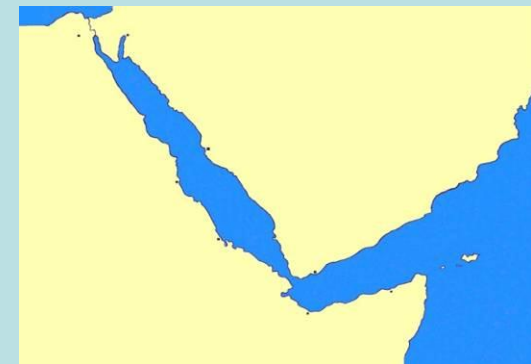
2009

MoU Concerning Cooperation in Port State Control

2011

MoU Concerning Cooperation in Management of Fisheries and Mariculture

2013



Framework of PERSGA Tracking System and Regional Indicators

Goals/ Objectives	Pressures / Issues	Relevant and cross cutting Program Component	Interventions, Projects and Activities (4Ws)	Indicators for Measuring Progress	Kind (State, Pressure, Response)	Means and Sources of Verification
Sustainability of Biodiversity and Living Resources	Destruction of Habitats Overexploitation of fish stocks Destructive fishing practices Threats to Endangered Species	Biodiversity/ MPAs	Regional Legislation National Legislation Strategies/ Policies Action Planning	Area under MPAs/ MMAs	S, R	PERSGA SG Reports
Protect key natural habitats				Nr. of key areas lacking protection	P, S	SOMER Reports
Restore degraded habitats				Area of Degraded Habitats	P, S	Projects Progress Reports
Fishing effort within MSY				Area of Restored Habitats	S, R	Projects Evaluation Reports
Control IUU Fishing	Invasive and Alien Species GMOs SST Rise, SLR, Acidification	LMR	Contingency Planning Capacity Building Sensitivity Mapping Technical Guidelines Management Planning	Nr. of Overexploited fish stocks	P, S	Workshop Reports
Protect endangered and key species				Nr. of Collapsed fish stocks	P, S	Missions Reports
Control Invasive Species and GMOs				Nr. of Restored fish stocks	R, S	PERSGA database/ GIS
Reduce vulnerability and increase resilience				Nr. of Endangered Species	S, P	National Reports
Restore degraded fish stocks				Populations of Endangered Species	S, P	Global datasets
				Access to International Conventions	R	Global Reports

PERSGA Tracking System and Regional Indicators

Major Goals

Sustainability of Biodiversity and Living Resources

Healthy Ecosystem through Pollution Control

Issues/ Objectives

PERSGA Programs and Projects:
LMR, Biodiversity & MPAs, LBA, EMARSGA, Climate Change, Capacity Building, etc.

National Programs and Projects:
Coastal Zone, Fisheries, Marine Conservation, Adaptations etc.

Means and Sources of Verification:
Annual & Evaluation Reports, SOMERs, etc

Regional Indicators:
State, Pressure and Response

Tracking Tool for Relevant Interventions Based on WWWs /geo-referenced data





PERSGA DATABASE PLATFORM



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Password

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- [Show Event Log](#)
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 - [Database Version](#)

- Quick Actions**
- [Where Part Settings](#)
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Who What Where

Institution
PERSGA

Actors
ALECSO
IMO
MAP
PERSGA

Donor
European Commission
GEF
Islamic Dev' Bank
UNDP
UNEP
World Bank

Who What Where

Sectors
Environment

Project/Activity
PERSGA / Natural Resources and P...

Who What Where

Country
Djibouti
Egypt
Jordan
Kingdom of Sudai Arabia
Somalia
Sudan

Town
Agaba
Djibouti Town
Dungonab
Frsan Island
Hurdga

Settlement
Agaba
Boosaaso
Djibouti Town
Frsan Island
Hurdga
Jeddah
Jezan
Kamran Island
Mogadishu
Mohamed Ool

Strategic Direction 6 :
Strengthen collaboration mechanisms
with relevant Multilateral Agreements
(MEAs), UN Agencies and International
Financial Institutions

PERSGA Partnerships with UN & MEAs-1

UNEP

- Blue carbon policy assessment (2013-2014)
- LBA/ NPAs, Marine liter, Nutrient load assessment (ongoing)
- EBM capacity building and planning: 2012, 2014
- EBA capacity building and planning: 2013, 2014
- RS, Coral Reef Initiative , MPAs networks, UN annual report on Seas (Regular)

IMO

- Technical cooperation agreement (ongoing)
- *Regional and national training workshops on oil/ HNS emergency planning, preparedness and response*
- Ballast Water Project: capacity building, Regional/ National Ballast Water Management Strategies (ongoing)

PERSGA Partnerships with UN & MEAs- 2

**UNIDO
/GEF**

- **Regional MSP on “Reduction of Unintentional Emissions of Persistent Organic Compounds (completed in 2014)**
- **Control of POPs emissions from ship recycling industry (in pipeline)**

FAO

- **Establish regional mechanism for cooperation in management of fishery in PERSGA region (2011-2012)**
- **Develop MoU for Regional Cooperation in Management of fishery and Mari-culture (ongoing)**
- **Capacity building on shark, IUU fishing, CRF (planned)**

**WB/
GEF**

- **Strategic Ecosystem Management of the Red Sea and Gulf of Aden Project (2014-2017)**
- **Coastal vulnerability scoping assessment of the southern Red Sea and Gulf of Aden (2012)**
- **Adaptation to the impacts of CC (planned)**

PERSGA Partnerships with UN & MEAs- 2

IOC/ UNESCO

- Capacity building on Ocean Acidification assessment and monitoring (planned)

UNFCCC

- Join UNFCCC as Observer since 2011
- Attending COPs 17, 18, & 19; organizing side events in collaboration with PERSGA member states

CBD

- Join CBD as Observer early 2014
- Attending COP October 2014

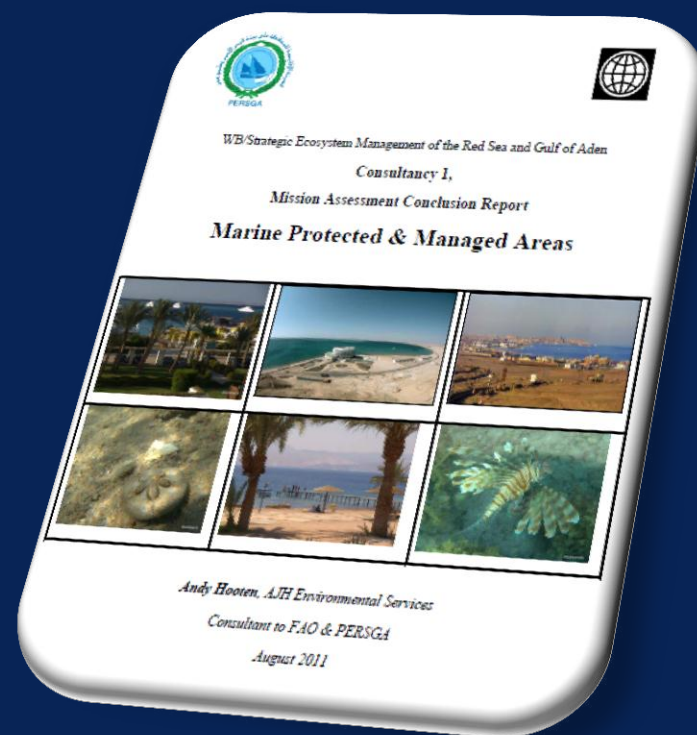
Strategic Direction 1
**Endeavor to effectively apply
an ecosystem approach in the
management of the marine
and coastal environment**

Support Ecosystem Approach

GEF project: Strategic Ecosystem Management of the Red Sea & Gulf of Aden (In collaboration with the WB)

Three Components:

- **Component 1:** Strengthening the principles of MMAs through stakeholder driven MPA implementation
- **Component 2:** Incentive based approaches to improve fisheries management and achieve other marine resource benefits
- **Component 3:** Monitoring network supporting ecosystem based management and community benefits



Project Development Objective PDO

The project development objective (PDO) is to improve management of marine resources in the Red Sea and Gulf of Aden demonstrated at selected MPAs building on resource protection, community participation and harmonization of the knowledge base of marine resources between PERSGA member countries.

EBM Vision in SEM Project

Conventional approach	Ecosystem approach
Top-down	Participatory
One objective: production	Multiple objectives
Sectoral	Interaction with other sectors
Fishery/Farm scale (most common)	Multiple (nested) scales
Predictive	Adaptive
Scientific knowledge	Extended knowledge
Prescriptions	Incentives
Corporate	Public/Transparent



Examples of EBM Vision in SEM Project

Conventional approach	Ecosystem approach
Top-down	Participatory
Corporate	Public/Transparent

Component 1 Focus: MPAs

- Community participation in MPA zoning and management

Component 2 Focus: Living Marine Resources

- Involving Stakeholders in Fishery Monitoring, Control and Surveillance

Component 3 Focus: Monitoring

- Community participation in monitoring ecological and socioeconomic variables/ disclose results

Examples of EBM Vision in SEM Project

Conventional approach	Ecosystem approach
Prescriptions	Incentives
Fishery/Farm scale	Multiple (nested) scales

Component 1

- Generate revenues from MPA / ecotourism
- Reservoir for stock replenishment
- Protect biodiversity

Component 2

- Revising management practices to include incentives
- Livelihood sub-projects to achieve other benefits from marine resources
- Improved stocks and catches through protection of spawning grounds and aggregations

Examples of EBM Vision in SEM Project

Conventional approach	Ecosystem approach
Predictive	Adaptive
Scientific knowledge	Extended knowledge

Component 1

- Regular assessment of MPA management plans
- Indigenous knowledge in zoning planning

Component 2

- Control based on monitoring stocks
- Indigenous knowledge in fishery management

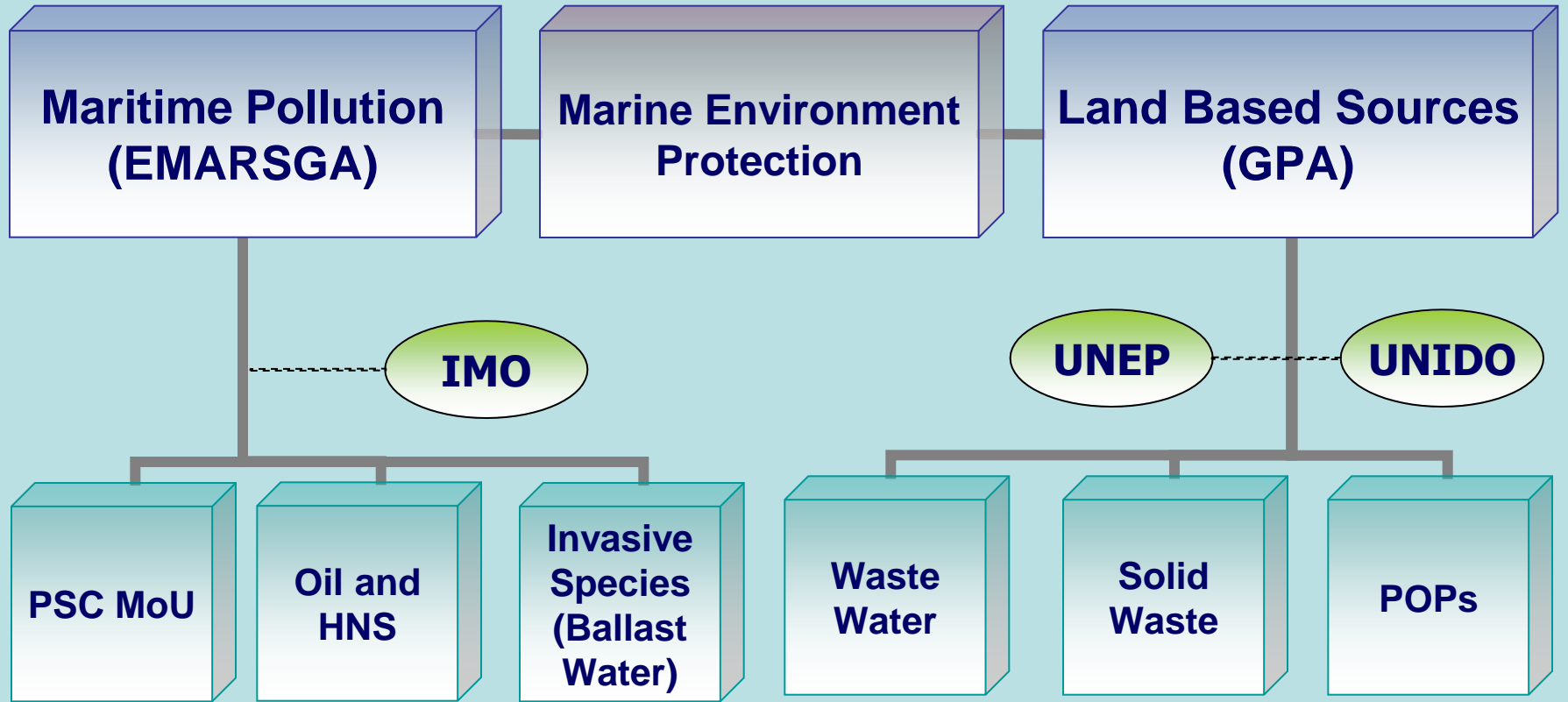
Component 3

- Monitoring results feed back into management decision
- Monitoring to supported by extended knowledge

Strategic Direction 2

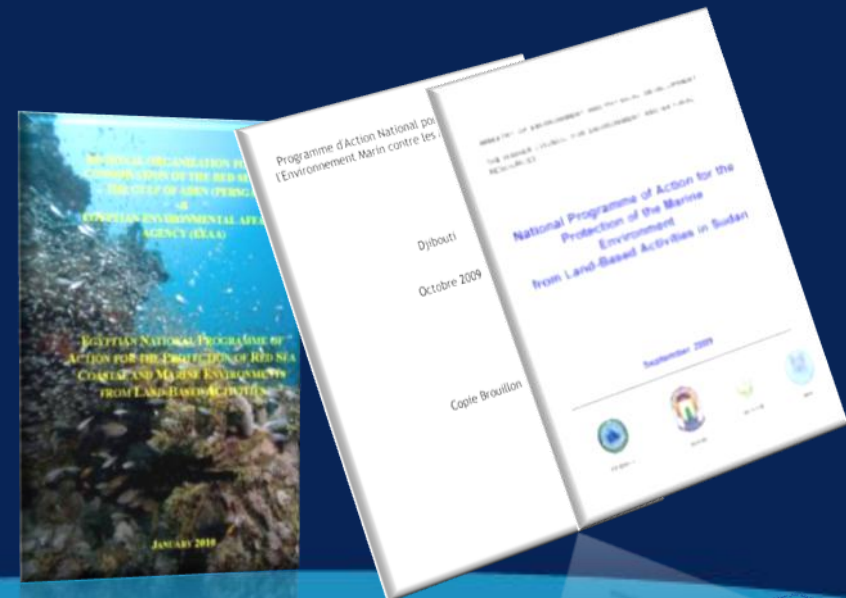
Contribute to the implementation of the Manila Declaration of the Global Programme of Action for the Protection of the Marine Environment from Land Based Activities (GPA), in particular the partnerships on wastewater management, nutrients and marine litter.





Collaboration with UNEP

- National Program of Action (NPAs) documents updated and finalized for PERSGA member states (2011-2013)
- Establish Regional Taskforce for assessment of nutrient loads from wastewater (2011-2014)
- Regional initiative for marine litter monitoring and management : PERSGA developed regional guidelines based on scoping surveys 2013-2015



Regional Project on

Wastewater Management in the Red Sea and Gulf of Aden Coastal Cities



Project Development Objectives

quantify and describe the sources of wastewater generated in the Red Sea and Gulf of Aden coastal cities

quantify and describe the loads from point and non-point sources discharging in the Red Sea or Gulf of Aden;

assess the burden of pollution load using available data and target completion of missing data



Project Development Objectives

evaluate the significance of various coastal conservation measures applied in the Red Sea and Gulf of Aden in reduction of the pollution load from land-based sources.

identify the need for effective wastewater treatment plants and demonstrate their significance in water reuse and protection of the coastal and marine environment

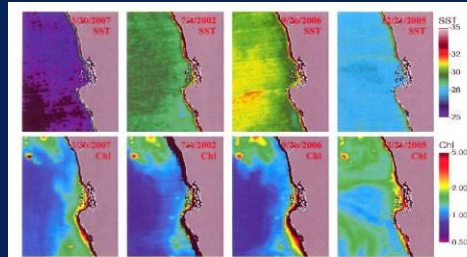


FIGURE 4.65A. Sample MODIS water quality imagery near Jeddah derived from MODIS/Aqua data collected on 3/30/2007, 7/4/2002, 9/26/2006, and 12/21/2005, respectively, representing the four seasons. The top panels show Sea Surface Temperature (SST) distributions in °C, and the bottom panels show Chlorophyll a concentrations in mg/m³. The MODIS data were obtained and processed according to the four steps as described in Section 3.6, and they cover the area from 21.1°N to 21.8°N and 38.8°E to 39.3°E.

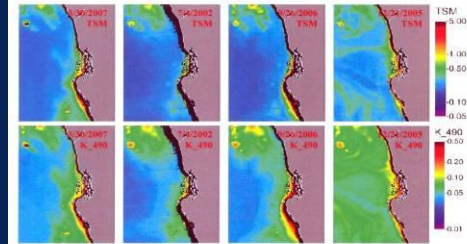


FIGURE 4.65B. Water quality products for Total Suspended Matter (TSM) (mg/L) in the top panels and water clarity or turbidity given by the diffuse attenuation coefficient, K₄₉₀ (m⁻¹) in the bottom panels.

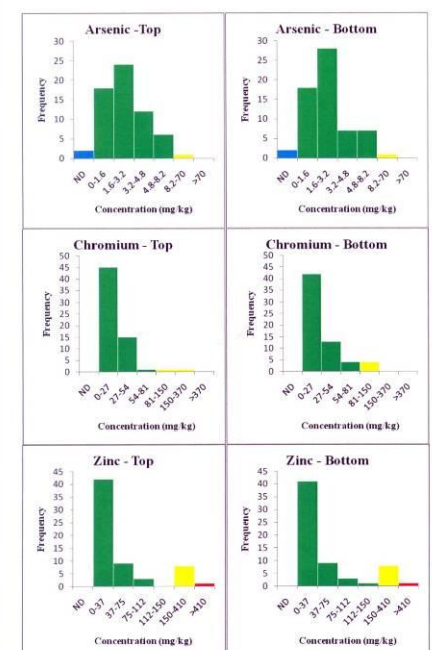


FIGURE 4.98. Distribution of arsenic, chromium, and zinc in sediments. Blue = non-detections; green = 0-ERL; yellow = >ERL but <ERM; and red = >ERM. See text for discussion of these sediment quality guidelines.



REGIONAL GUIDELINES ON WASTEWATER MANAGEMENT IN COASTAL CITIES ON THE RED SEA AND GULF OF ADEN

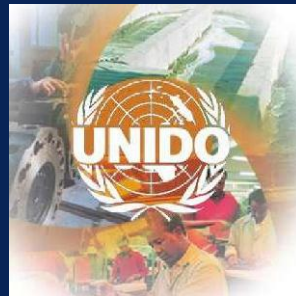


PERSGA/UNIDO Collaboration:

Building Regional Capacities to implement Stockholm Convention on UP POPs



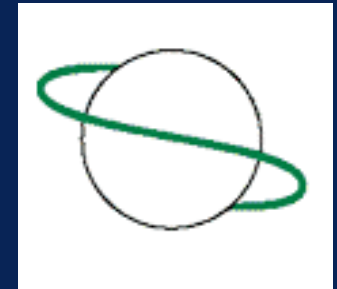
The Stockholm Convention



UNIDO



PERSGA



GEF

Promotion of strategies to reduce unintentional production of POPs in the Red Sea and Gulf of Aden (PERSGA) coastal zone

Regional Project on “Reduction of Unintentional Emissions of POPs in Coastal areas



- Assessments and demo activities on BATs/ BEPs:
 - Oil refining at Suez- Egypt
 - Asphalt mixing in Port Sudan
 - Industries at Aqaba
 - Open burning of garbage at Safaga and Port Sudan





- Support member states with sample collection equipments and capacity building in POPs sampling and monitoring



- Regional and National Training Workshops
- Develop Regional Strategy for Reduction of POPs Unintentional Emissions Through Applying BATs/ BEPs



Preparation for a new Project on Ship Recycling Effects on Coastal and Marine Environment in collaboration with UNIDO

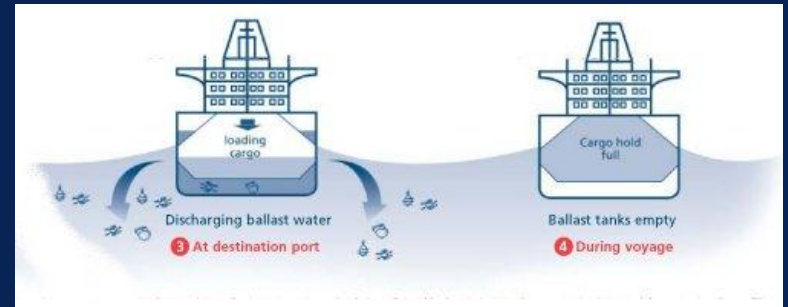
- Regional Workshop on Hazardous Waste Management in Ship Recycling



Protection of Coastal and Marine Environment from Maritime Pollution



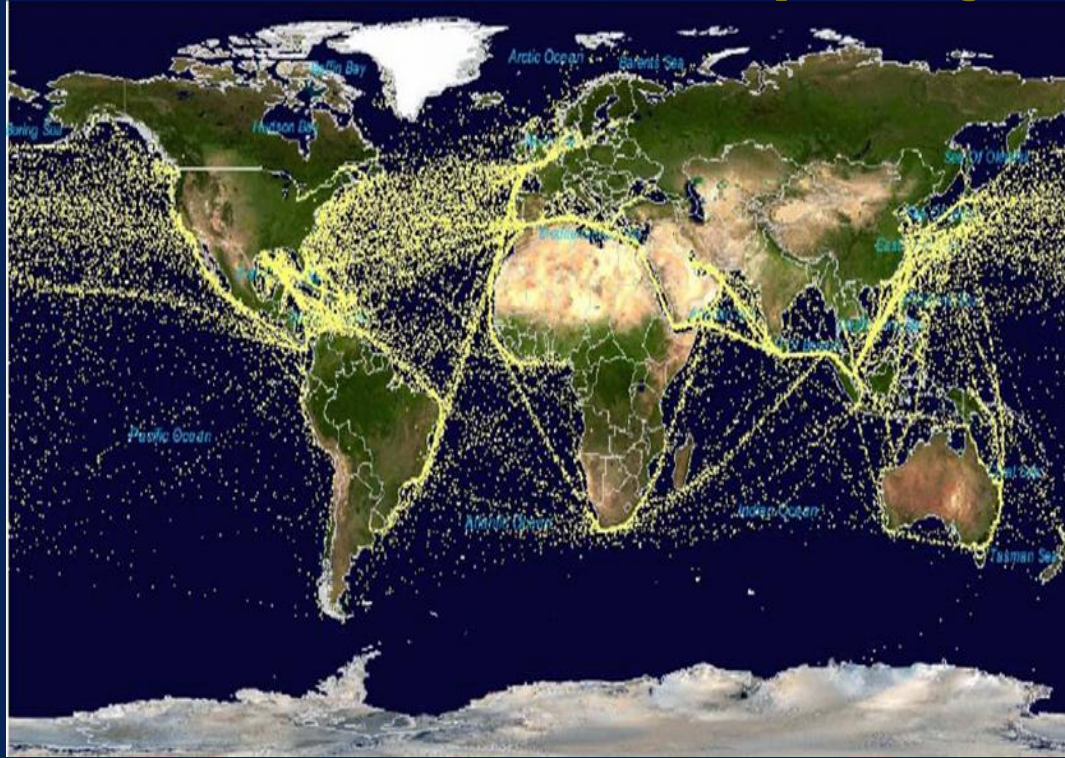
PERSGA Collaboration with IMO



Agreement of Technical Cooperation

Global Ballast Partnership Project

GloBallast Partnership Project



Technical assistance and public awareness of the problem of invasive species

Develop national ballast water strategies

Develop a regional strategy

Technical Cooperation with IMO:

- Regional Strategy for Ballast Water management
- Capacity Building Training workshops on oil spill and HNS contingency planning & response, and ballast water management.



- Capacity Building Training workshops on MARPOL convention and its annexes 1 - 6.



Strategic Direction 5

Strengthen coordination and capacities at regional and national levels to improve global knowledge and trends on the status of the marine environment

Capacity Building

- The region has special needs for capacity building
- **PERSGA Training Program** enhanced through partnerships with national, regional and international agencies

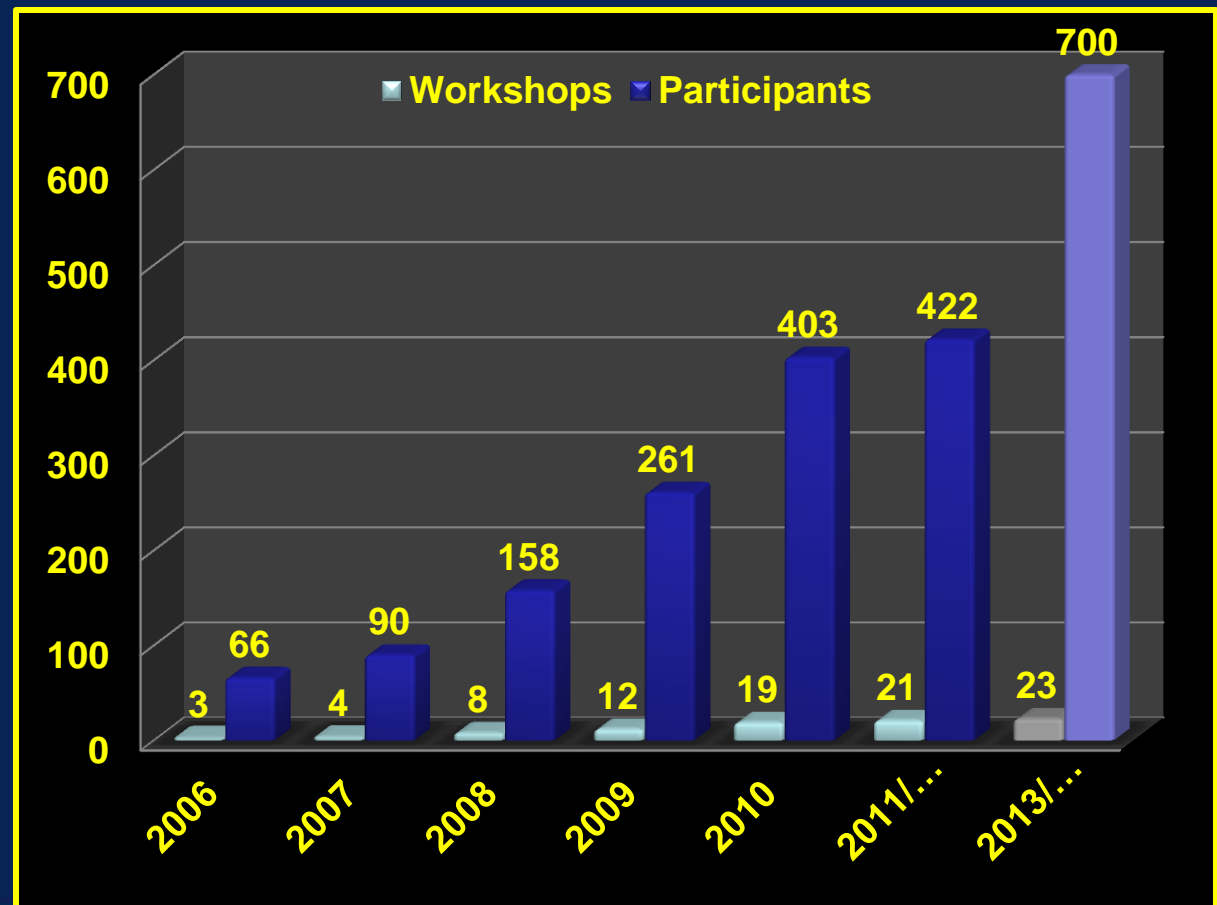
Technical training

Regional networking

Partnership building

Exchange expertise

Technology transfer



SOMERS FOR RED SEA AND GULF OF ADEN

- ❑ **PERSGA SOMER (2)**: first draft of 5 chapters prepared, currently under revision
 - Physical Environment and Climate Change
 - Coastal & Marine Pollution (LBA and sea-based)
 - Biodiversity
 - Fishery and Aquaculture
 - Human Dimension



Strategic Direction 4

Support the provision of tools to decouple economic growth from environmental pressures in the marine and coastal environment

Capacity building workshop and draft regional guidelines for economic valuation of coastal and marine ecosystems (2012)

Component two of the SEM project (2014-2017) will provide institutional and technical capacity needed for communities at project sites to use and protect living marine resources increasing net benefits derived from the resources in a sustainable manner

In the demo sites, the capacity of community and user group will be built to understand trade-offs associated with development and the costs and benefits to the community, and to organize as user groups around these uses

PERSGA Awareness Program has regular activities involving school clubs and local media in major coastal cities and towns of PERSGA member states





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Thank You

