

# Development of the Marine Litter Action Plan for the Red Sea and Gulf of Aden

### **Overview on the Coastal Marine Litter in PERSGA** region

□ The region has one of the world's busiest shipping lanes.

□ A broad range of marine litter occurs in the region similar to other coasts with plastic as the common type.

□ Some marine litter types like fireworks, toys, ect.. are not common in the PERSGA region.

□ Weak public awareness of the impact of marine litter;

□ Weak enforcement of regulations to control ML

□ Inadequate solid waste management and regulations allows marine litter problem to escalate.

# **Regional Program of Action for the Protection of the Marine Environment from Land-Based Activities (RPA)**

Legal Basic : PERSGA Protocol Concerning Protection of the Marine Environment from Land-Based Activities in the Red Sea and Gulf of Aden (2005)

#### Article 7 Management of Solid Wastes

Parallel to the Global Programe of Action, wastes or marine litter dumped in the coastal zone should be taken into consideration to avoid the risks imposed on marine life. .....

Therefore, the Contracting Parties, commit themselves as follows-:

•Taking all appropriate action to ensure elimination, to the greatest extent possible, of the solid wastes and litter reaching the marine and coastal environment by prevention or reduction of solid waste generation and by introduction of enhancements to waste treatment, including methods of collection and recycling and final disposal thereof.

•Cooperating with each other.....



#### **Developed Marine litter Sustainable Management Framework** with support of RSP/UNEP (2007-2008)

PERSG/

in the



Regional Meeting to Discuss the Marine Litter Framework Document Hurgadah, Egypt, April, 2007

### **PERSGA** Marine Litter Initiative

# Awareness and Beach Clean-Up Campaigns in Yemen with support of RSP/UNEP in 2008 and slogan " *Clean up Our Seas*"



## **PERSGA Marine Litter Initiative**

# Awareness and Beach Clean-Up Campaigns in Djibouti with support of RSP/UNEP in 2008 and slogan " *Clean up Our Seas*"



دهمورا بحاريا . شعار الهينة لحملة تنطيف البحر الأحمر وحليج عدن من النصايات. تنفيذ خطة العمل الإقليمية لإدارة النفايات في الناطق الساحلية.

Clean up Our Seas: It is the slogan of the campaign of PERSGA to clean up the Red Sea and Gulf of Aden from litter within the framework of the Regional Action Plan for Sustainable Management of Marine Litter in the PERSGA Region.







# Underwater Clean-Up Campaign in Jeddah, Saudi Arabia in 2008 in cooperation with a Dive center







# Awareness and Clean-Up Campaign in Salif, Yemen in 2010 in cooperation with the local municipality and coast guards

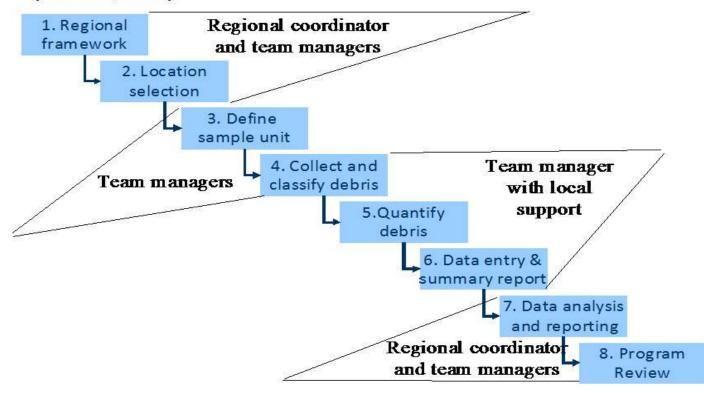


#### Training Workshop on Assessment and Management of Marine Litter 6-8 February 2012. PERSGA Headquarters, Jeddah, Saudi Arabia



Developed a Costal Marine Litter Assessment Guidelines for the Red Sea and Gulf of Aden, produced in 2014

#### Framework for developing beach litter assessment capability (PERSGA, 2014)



### Assessment Methods:

# Baseline Visual Beach Litter Assessment Rapid Beach Litter Assessment Comprehensive Beach Litter Assessment

#### **Some Litter Categories**



#### Area measurement of a beach bite with litter



# **Surveys for Coastal Beach Assessment in the Region 2012**











Different types of beach profile in the PERSGA region: A = Concave, B = Convex, C = tiered and D = linear.(PERSGA, 2014)



#### **Overview on the Survey Assessment used in the region**

Coordinated and implemented with the focal points
Conducted in April-June, 2012
More than 100 sites studied in the four countries, documented with photos and coordinates for each site.

## **Main Objectives of the Survey**

Knowing the status of the coastal marine litter in the region;
Identifying the litter categories and sources;
Setting 2-6 priority sites from each member country for a regional monitoring program
Assisting member countries in management of marine litter

# **The Method Used for the Assessment Surveys**

**Baseline Visual Litter Assessment :** Percentage coverage, litter categories, measuring width and length of the site covered with litter, site coordinates.



### <u>Team memebers measuring the width and length of</u> <u>a beach site in the region</u>

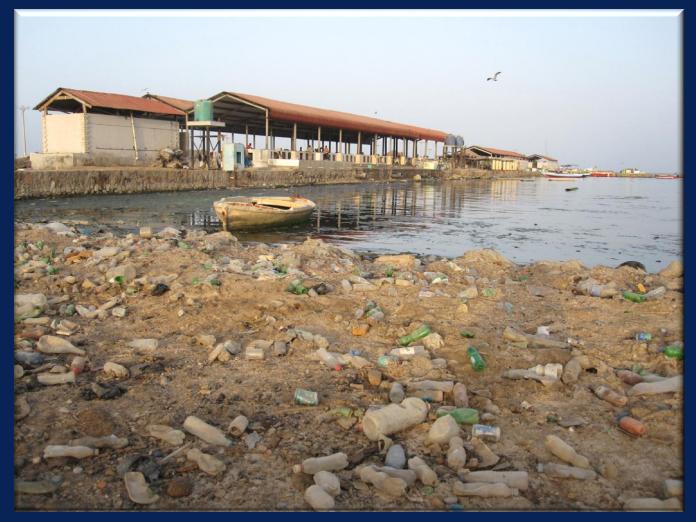
#### **Scale of Marine Litter Coverage**

% Coverage	Scale
<5%	1: Very Low
5%-10%	2: Low
>10%-25%	3: Medium
>25%-50%	4: High
>50%-75%	5:Very High
>75%	6: Extremely High

#### **Datasheet used for the B**

Country:Date:								
Data Colle	Data Collected by:Taken Pictures Serial No:							
Site No: Name/Location:								
Nearest Community:								
Coordinate	Coordinates N:E:E							
Beach	Beach	Length	%	%Cover	Common litter			
Profile	Average	of	Cover	of Plastic	Categories			
Туре	Width (m)	beach	of litter	litter				
-		(m)						
Remarks:								
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# **Examples of sites with** 50-75% **coverage of litter and land-based sources** in the region-based on the Survey Assessment



**Common litter category: Plastic bottles** 

# **Examples of sites with** >75% **coverage of litter and** <u>land-based</u> <u>sources</u> in the region-based on the survey assessment



**Common litter category: Plastic sheets** 

## **Examples of sites with** 25%-30% **coverage of litter and** <u>sea-based</u> sources the region



**Common litter category: Plastic bottles** 



# Example of results

#### <u>Compressive Beach Litter Assessment</u>

Item code (standard list)	Description	Count (# items)	Weight (kg)
PL02	Plastic bottles small	20	0.86
PL03	Large bottles, 2 stroke oil containers	5	0.67
GC04	Light globes	4	0.2
PC04	Paper trays	10	0.35
PL19.1	Vegetable bags	3	18
PL19.2	Mussel bags	3	18

Note the subcategories for litter code PL19 (shaded). •



# National Workshop on survey result of coastal marine litter in the Red Sea Region of Yemen. Hodeidah, April 2014.



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# National Workshop on survey result of coastal marine litter in Djibouti. Djibouti, August 2014.

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**Conduct** baseline visual beach surveys for coastal marine litter in Saudi Arabia and Egypt. **Organize** a series of national training workshops on using the Guidelines **Develope a regional coastal marine litter monitoring** program, including clean up campaigns and awareness programs. • Applying the comprehensive coastal marine litter assessment method during the monitoring program.





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Thank You...

