
Progress in Addressing Marine Litter in Korea

Recent Policies and Efforts to Protect the Marine Environment from Marine Litter

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(2019~2023) and the Review of 2nd Plan

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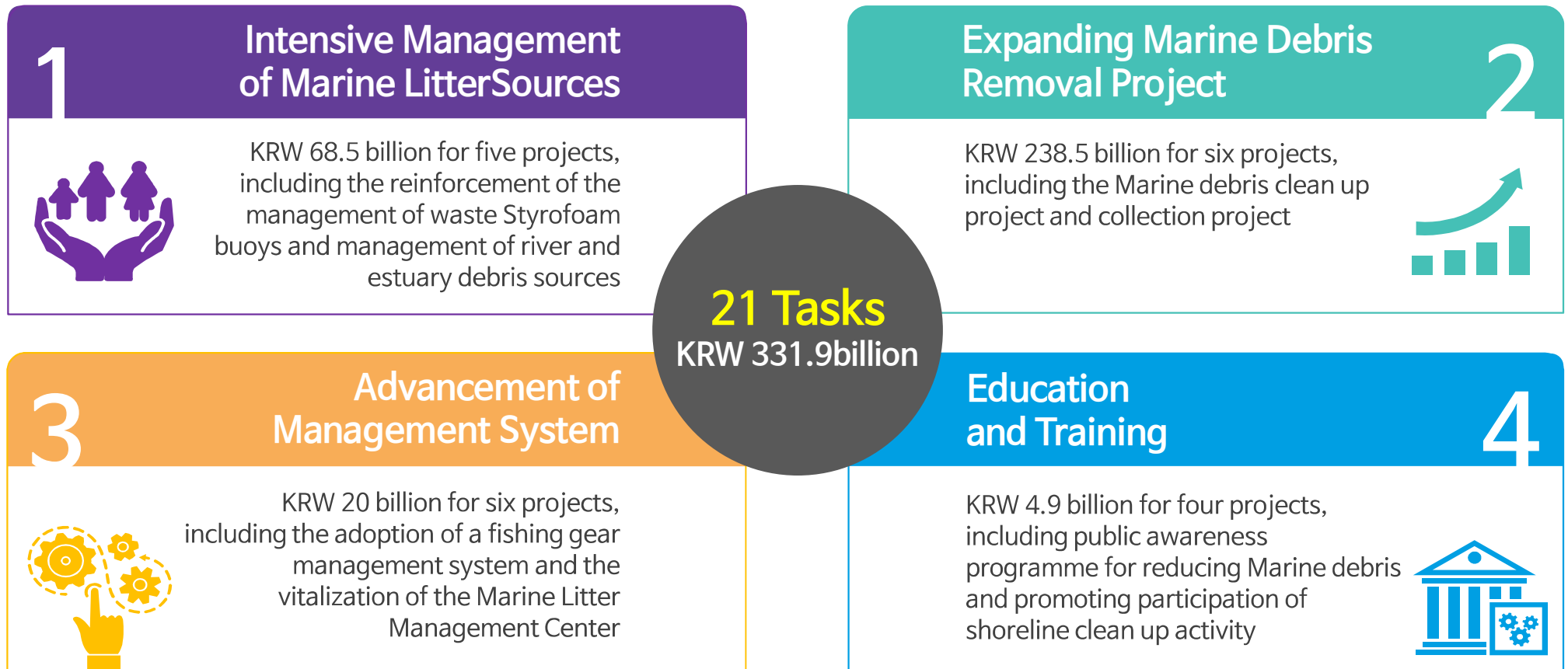
Chapter 1

3rd National Marine Litter Management Plan (2019~2023) and the Review of 2nd Plan

Scope of the Plan

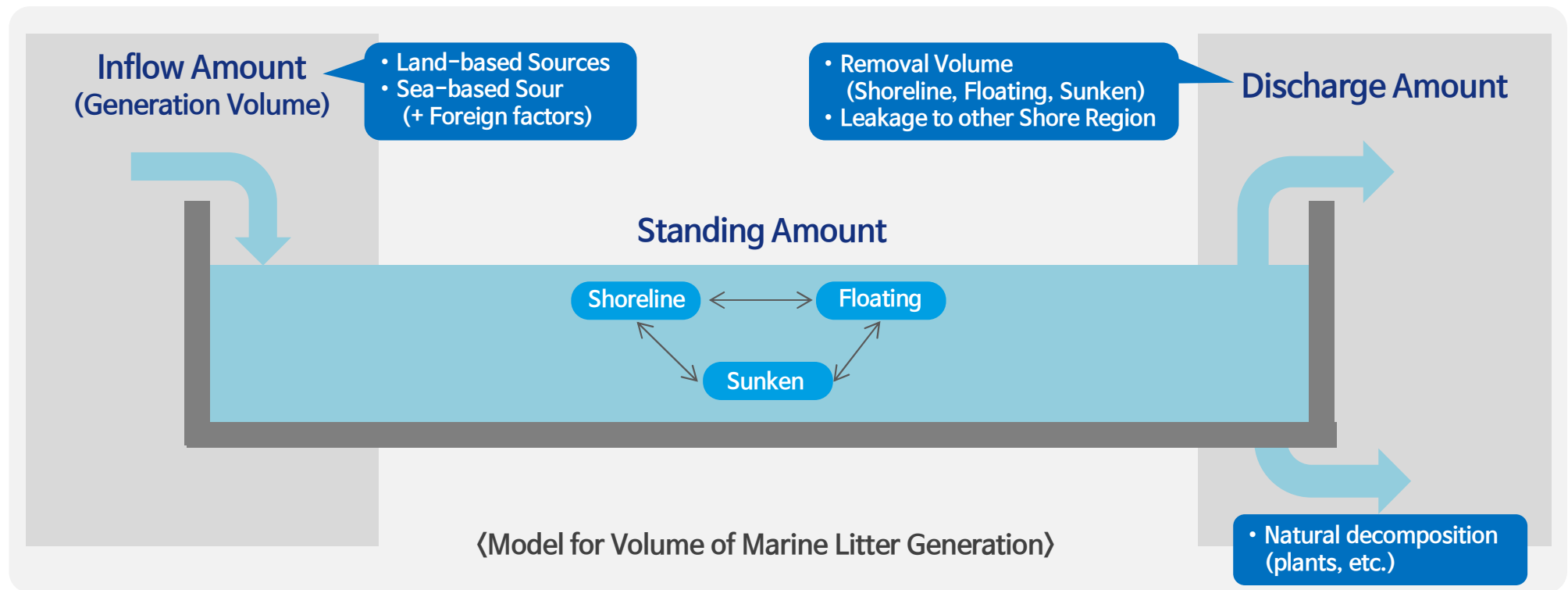
- ❖ **Evaluation of the 2nd National Marine Litter Management Plan (2014~2018)**
 - Evaluate Action Programs on 2nd NMLM Plan
 - Problem Analysis
- ❖ **Global and Domestic Trends in Marine Litter Management**
 - Research on Global and Domestic Trends and Policies in Marine Litter
 - Business Demand Research
- ❖ **Research and Estimation of Domestic Marine Litter Volume**
 - Data collection and analysis, estimation of marine litter volume, establishment of systems for research and statistics
- ❖ **Establishment of Objectives and Strategies for the 3rd National Marine Litter Management Plan**
 - Establishment of directions for policies and management objectives, suggestion of execution strategies
- ❖ **Establishment and Implementation of Execution Plans (Business/Project) for Each Objective, Management, Arrangement of Evaluation Methods**
 - Suggestion and implementation of detailed tasks for each strategy and execution plans, arrangement of plans to acquire financial resources

Review on the 2nd National Marine Litter Management Plan (2014~2018)



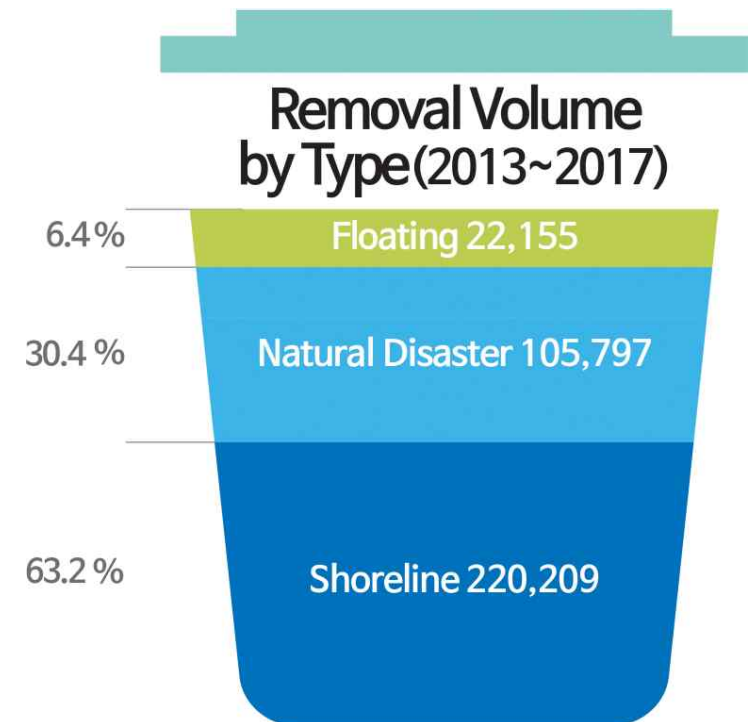
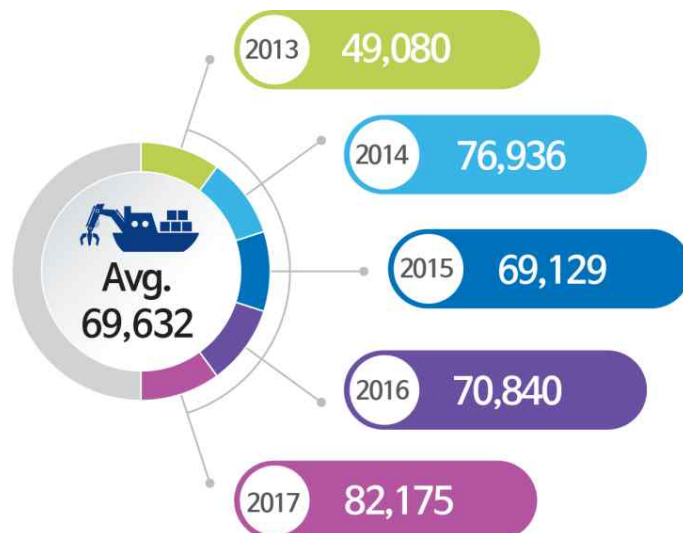
Estimation of volume of marine litter generation

- Foreign factors are added to existing land-based sources and Sea-based sources
- Discharge amount consists of the Removal Volume and Decomposition
- Standing amount consists of the Shoreline, Floating, and Sunken Marine Litter
- Scientific Accuracy and Usefulness of Policies are to be Considered



Review on the 2nd National Marine Litter Management Plan (2014~2018)

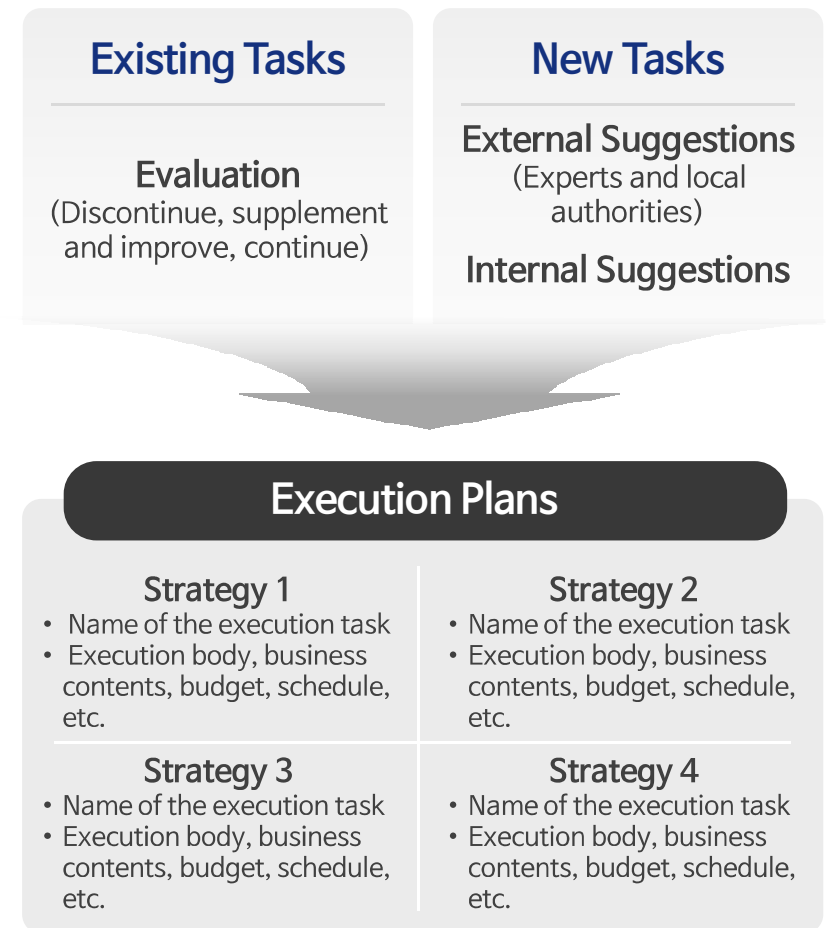
- ❖ **Estimated Annual Amount of Marine Litter : 176,000 tons**
 - Land-based: 118,000 tons(67%); Sea-based: 58,000tons(33%)
 - * Inflow of fallen trees due to natural disasters: 86,000tons(48%);
Fishing gear: 44,000tons(25%)
- ❖ **Estimated Standing Amount of Marine Litter : 152,000 tons**
 - Amount of Marine Debris: 152,000tons (shoreline, 12000tons; sunken, 137,000tons; floating 2,000tons)



❖ Establishment of Directions for the Management Plan (6 Steps)



❖ Method of Execution Task (Plan) Derivation



Execution Capability Reinforcement Plan

'The 3rd National Marine Litter Management Plan' Execution Capability Reinforcement

Improvement of Execution System

Improvement of coordination and mediation functions of "Marine Litter Policy Consultation"

Establishment of the Comprehensive Execution Evaluation System

- Examination of Inter-departmental Executions
- Examination of Executions within Department
- Examination of Executions in Local Authorities

Legal Basis of Policy Coordination/Mediation

- Improvement of the legal institutional foundation
- Similar case: "MDCC" in the USA



Expansion of Financial Resources

Review of Expansion Plans for Financial Resources of Marine Litter Management

Ministry of Maritime Affairs and Fisheries

- Fisheries development funds, deposits based on the enactment of 「Fishing Gear Management Act」, etc.

Ministry of Environment

- Cost sharing of plastic marine litter management (EPR system, environmental charges, etc.)

Reinforcement of Capabilities of Local Authorities

Capability of Local Authority ↑

= Execution Capability of the Management Plan ↑

: Local authority is the execution body for the management business

Needs of Local Area-Based Business Execution

- Characteristics and management conditions vary in each area of the ocean, There are management issues confined to local areas

Suggestion of Local Execution Capability Reinforcement Plans

- NOAA, Local coordinators Review of advanced cases including policies
- Looking for business (local authority consulting, public offering business), education and training sessions for personnel in local authorities



Chapter 2

Recent Projects to Combat Marine Litter

Estimation of volume of marine litter generation

- ❖ Starting Marine Debris Monitoring at **20 sites** in 2008
- ❖ Expanded to **40 sites** in 2015
 - About 25 local NGOs participated in each region

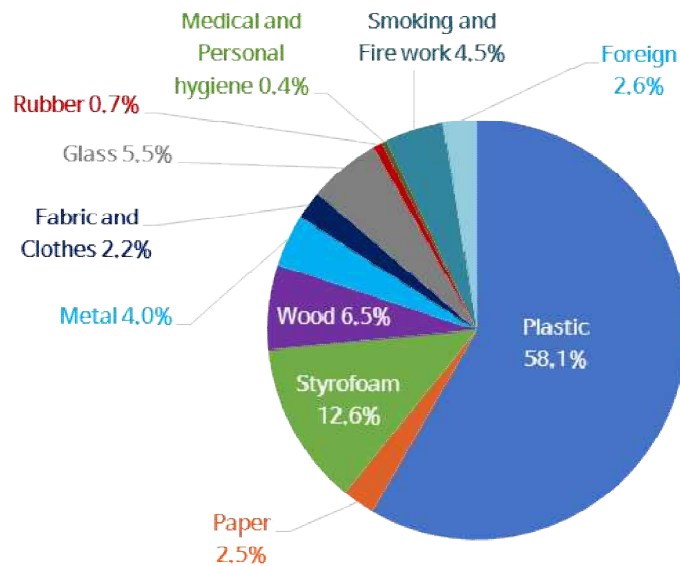


- ❖ Length: 100m
- ❖ Width: From current water level to the back of the beach
- ❖ Counting items Larger than 2.5cm Weighing/ volume-estimating categorized debris



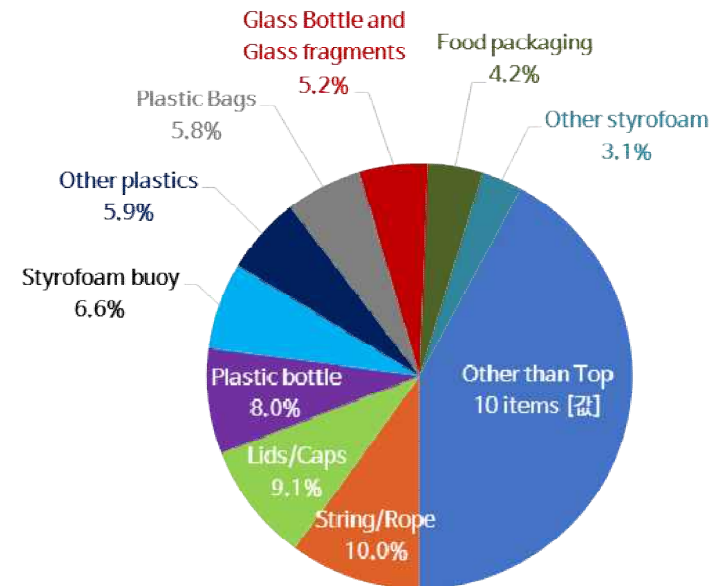
National Marine Litter Monitoring Program

Composition of Marine Litter by Number ('17)



On the basis of number, Plastic and Styrofoam occupied 58.1%, 12.6%, respectively. Plastic made up more than 70%. Marine Litter from foreign countries occupied 2.6%, which is lower than those of previous years (5%)

Top 10 Items of Marine Litter in KNMDMP ('17)



The most abundant items were String/Rope (10.0%), Caps (9.1%), Plastic bottles (8.0%), Styrofoam buoys (6.6%), Other plastics (5.9%), and Plastic bags (5.8%). String/Rope was the total of ≥ 50 cm and < 50 cm.

Raising Public Awareness

❖ Public Awareness Advertising

To Prevent Tourists from Littering during Summer Vacation Season



Using the image of a glass bottle, the advertisement gives a message of
“What goes around, Comes around”

Recent Projects to Combat Marine Litter

Raising Public Awareness

❖ Nationwide Idea Contest for “Litter Free Sea

- Open Contest for Ideas to Prevent Marine Litter
- Submission Date : April 2nd ~ April 27th , 2018

• Prize

1st Prize : Awarded by MOF
2nd ~ 3rd Prize : Awarded by KOEM

- 91 team participated for the competition



International Cooperation

International Coastal Clean-up(ICC)



2017 ICC(2017.9.22./Donghae)

- ❖ International Coastal Clean-up(ICC)
Since 2001, Local NGOs have been holding ICC and from 2010, MOF is allocating subsidies to raise public awareness

NOWPAP ICC - TEMM Workshop



2017 Workshop(2017.9.18./Toyama, Japan)

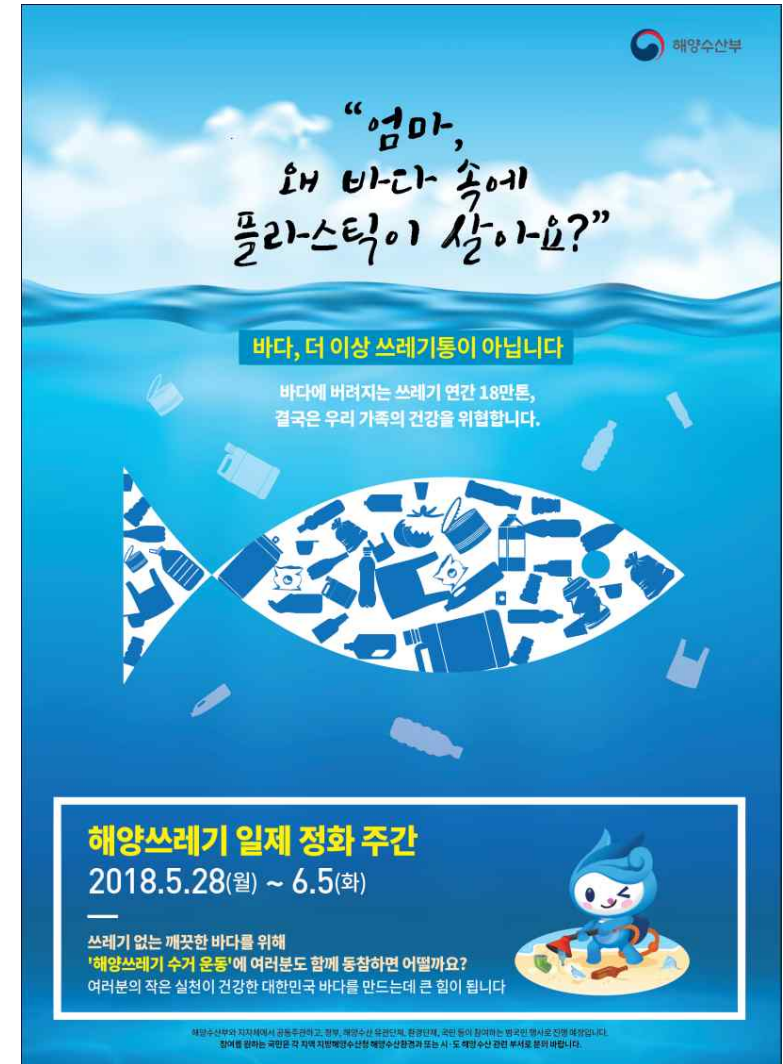
- ❖ NOWPAP ICC - TEMM Joint Workshop
- ❖ TEMM Marine Litter Focal Point Meeting

Recent Projects to Combat Marine Litter

Raising Public Awareness

❖ Marine Litter Cleanup Week for Ocean Day

- Nationwide Marine Litter Cleanup Campaigns for the 23rd Ocean Day of Korea (May 31st, 2018)
- Date : May 28th ~ June 5th, 2018
- Participants: MOF, Local Governments, KOEM, other organizations, etc. (685 organizations, 24,289 participants)
- Sites: 65 Local Government Areas









Chapter 3

Current Issues facing Marine Litter in Korea

❖ Reinforcement of Management Foundation through Improvement of Marine Litter Related Policies

- Improvement of management laws and subordinate statutes for marine litter and marine pollution deposits, improvement of recycling system for marine waste resources

❖ Establishment of Management Foundation for Marine Litter Led by Local Areas

- Reinforcement of local capabilities for marine litter issues led by the central government in order to overcome the marine litter management limit
- Establishment of local area-oriented management environments such as local public offering business and local specialization business

❖ Response to International Issues such as Plastic Marine Litter and Micro Plastic

- Expansion of research investments for responses to safety issues of micro plastic in the marine ecosystem and seafood
- Inter-departmental collaboration to reduce discharge of plastic wastes such as disposable plastic products to the ocean

❖ Expansion of Resource Recycling Policies Including Marine Waste Resource Recycling

- Reinforcement of policies to increase recycling of marine waste resources generated from fisheries such as fishing nets
- Development of eco-friendly materials such as buoys for aquaculture and fishing nets, policies to encourage changes in consumption patterns of fishermen

THANK YOU



Ministry of Oceans
and Fisheries

KOEM
Korea Marine Environment
Management Corporation