

# Assessment of fishery-based marine litter in coastal areas of Yellow Sea



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# 01 Brief introduction of Rendu Ocean



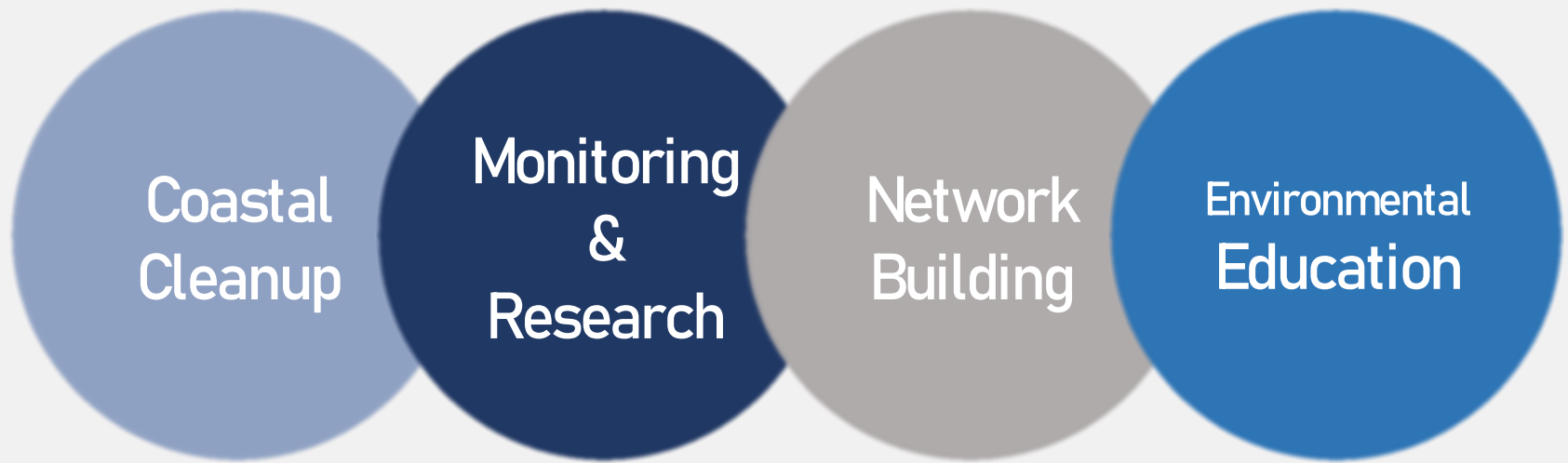
# Rendu Ocean (Shanghai Rendu Ocean NPO Development Center )

- Currently the only NPO in China mainland focusing on marine debris issues;
- Founded in 2007;
- Registered as a civil non-enterprise unit in 2013;
- The member of UN Environment Global Partnership on Marine Litter (GPML) since 2013;
- The ICC Coordinator of China since 2008.



# Rendu Ocean (Shanghai Rendu Ocean NPO Development Center)

## Business Scope



Main business

Side business



# Rendu Ocean (Shanghai Rendu Ocean NPO Development Center)

## Coastal Cleanup

- Organize and undertake coastal cleanup in corporation with enterprises, government institutions, communities and volunteers

## Environmental Education

- Focus on fostering environmental awareness of primary-school pupils
- Promote the public, government and environment institutions to reduce litter input into oceans.

## Monitoring & Research

- Debris sampling alongside China's coastline
- Collect and analyze data on the quantity, mass and type of beach litter
- Provide the government and the public with a basis for actions

## Network building

- Promote collaborative actions, intercommunication & mutual support
- Integrate social resources, institutional experience and capacity to facilitate marine debris management



# CCMC (Coastal Cleanup And Monitoring Project in China)

## Coastal Cleanup

The project of coastal cleanup activities called '**Love the Origin of Our Life**' is the core business of Reudu Ocean.

By the end of 2018, we had organized **217** activities with **10000+** participation counts and **27MT** beach litter cleaned and received multiple awards.

Several cleanup products:

The  
Multitude's  
Cleanup

Monitoring

Little Blue  
Detectives



# CCMC (Coastal Cleanup And Monitoring Project in China)

## Monitoring & Research

- 36 cities
- 38 partners
- 55 sites
- Six synchronous sampling each year.
- Fully dedicated data analysis team.
- Annual reports.
- Supports from government (Shanghai Pudong Oceanic Bureau).





## Environmental Education

### 'The Ocean in the Life' lesson series

Provide Grade 3-5 pupils with relevant knowledge of marine conservation as a course in school clubs.

- 40+ revised courseware
- About 200 volunteer teachers
- Selected as Excellent Summer Course by the Communist Youth League CPC Shanghai Municipal Committee

Topics include:

Sea horse Turtle's pain Sea lion Shellfish  
Ship pollution Arctic The marine ghost killer  
The floating journey of little yellow duck  
Limulus The ocean guard Jellyfish Red tide  
Seals and fishing nets Shark Mangrove  
Amphiprioninae Petrel Galapagos islands  
The Great Pacific Garbage Patch Sea otter  
The beach after holidays Balanus



# Rendu Ocean (Shanghai Rendu Ocean NPO Development Center)

## Network building

<b>Symposiums</b>	First Seminar for National Marine Environment Protection Institutes
	Taiwan Ocean Cleanup Joint Seminar
<b>Forums</b>	Oceanic High-tech Forum Marine Popular Science Sub-Forum
	China Ocean NGO Forum
<b>Coastal cleanup</b>	World Oceans Day National Collaborative Coastal Cleanup
	ICC Collaborative Action
<b>Reports</b>	<i>China Marine NGOs Development Report</i>
	<i>China Marine Environmental NGO Directory</i>
<b>Others</b>	China Ocean Environmental Protection NGO Capacity Development & Network Construction Project



# Rendu Ocean (Shanghai Rendu Ocean NPO Development Center)

## Network building



## 02 CCMC-Network



# CCMC (Coastal Cleanup And Monitoring Project in China)

## Monitoring & Research

- Coastal Cleanup and Monitoring Project
- Initiated with Shenzhen Mangrove Wetlands Conservation Foundation (MCF).
- Officially launched in Nov, 2014.
- Cooperate with organizations and institutions along China's coastline.
- Monitor beach litter periodically and persistently.
- Provide a scientific basis for marine debris management and relevant policy making.

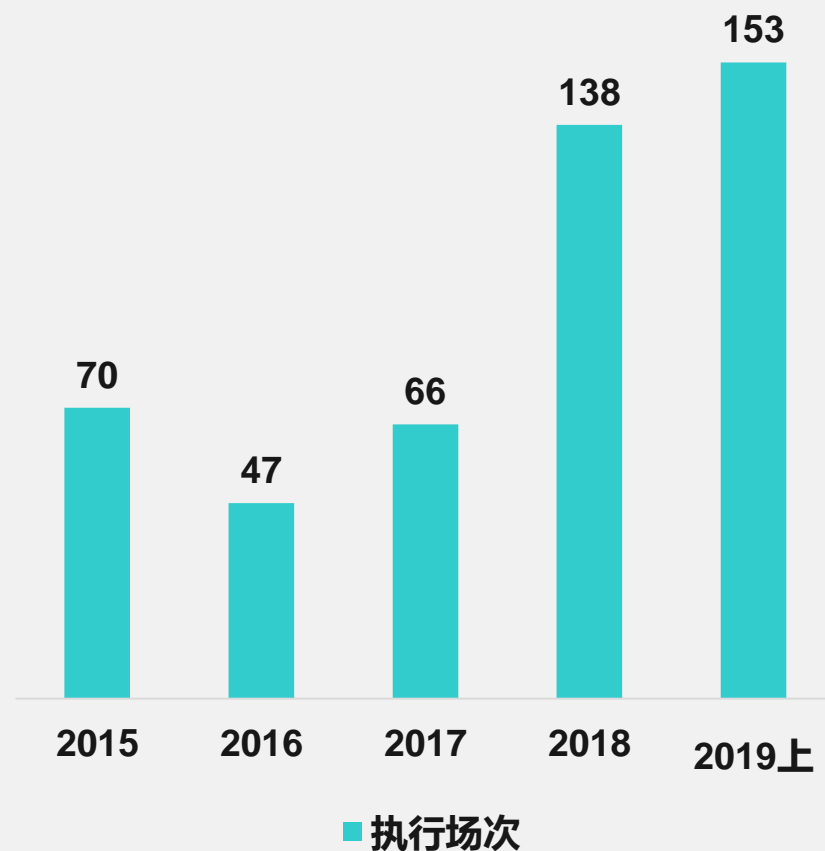


# CCMC (Coastal Cleanup And Monitoring Project in China)

## Monitoring sites



## Sampling



# CCMC (Coastal Cleanup And Monitoring Project in China)

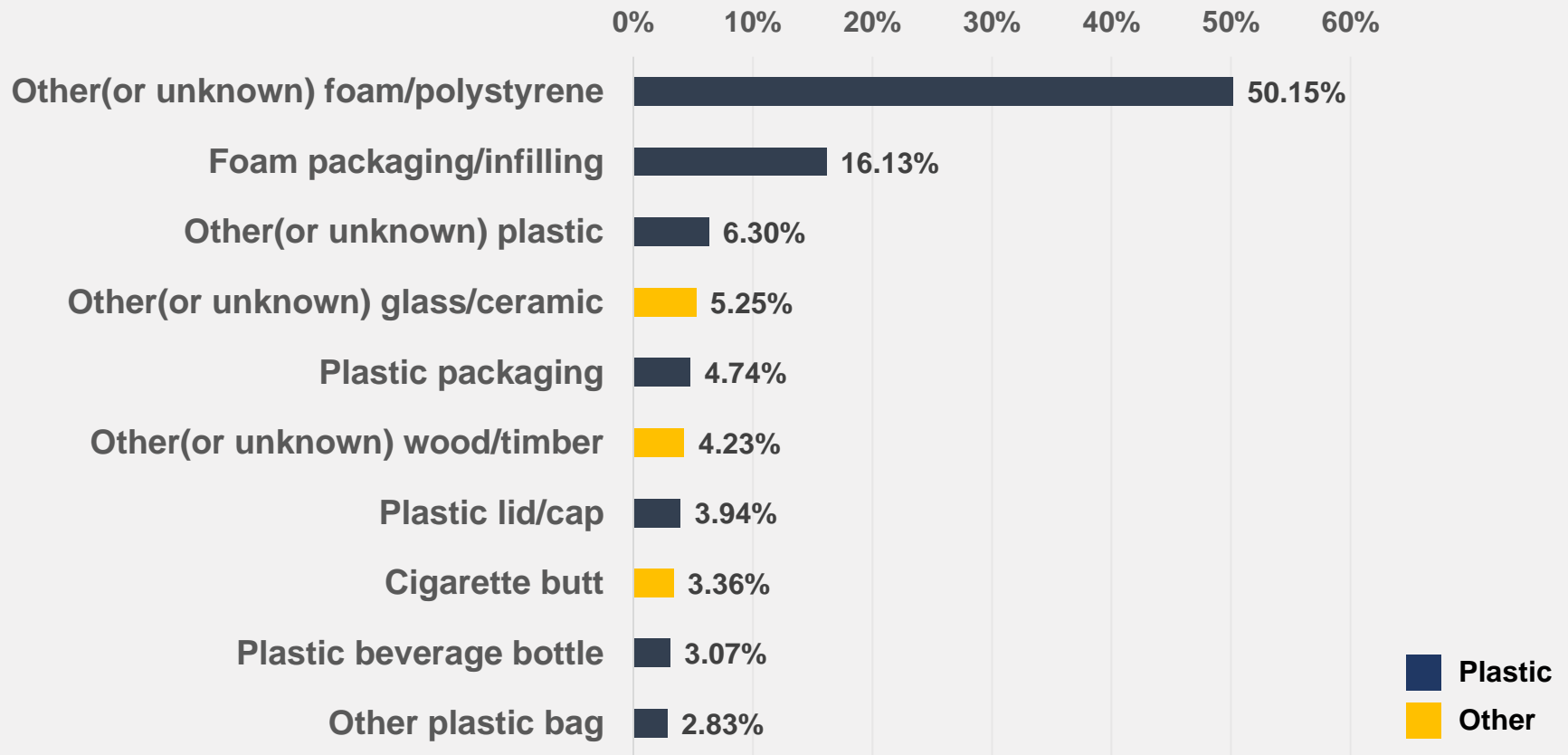
●一般塑料类				数量	重量	数量	重量
塑料饮料瓶	正下	=	8	=	304.8g	塑料吸管、搅拌棒	T = 2 = 4.2g
其他塑料瓶 (油装, 漂白剂等)	正下	=	8	=	452.2g	塑料手套	F = 3 = 47g
塑料瓶盖	正下	=	8	=	39.6g	塑料鞋子	F = 3 = 640.2g
塑料盖子 (如杯盖、盒盖等)	正-	=	6	=	38.5g	渔线(1米折合1件)	= =
塑料包装 (纸巾、薯片等包装袋)	正-	=	6	=	114.7g	缆绳(1米折合1件)	= =
塑料购物袋	正-	=	6	=	186.3g	渔网及碎片	= =
网眼袋、蛇皮袋、编织袋		=		=		浮标, 鱼篓, 鱼罐	= =
其他塑料袋		=		=		塑料牙刷	= =
塑料快餐盒		=		=		打火机	= =

●一般塑料类				数量	重量
塑料饮料瓶	正下	=	8	=	304.8g
其他塑料瓶 (油装, 漂白剂等)	正下	=	8	=	452.2g
塑料瓶盖	正下	=	8	=	39.6g
塑料盖子 (如杯盖、盒盖等)	正-	=	6	=	38.5g
塑料包装 (纸巾、薯片等包装袋)	正-	=	6	=	114.7g
塑料购物袋	正-	=	6	=	186.3g



# CCMC (Coastal Cleanup And Monitoring Project in China)

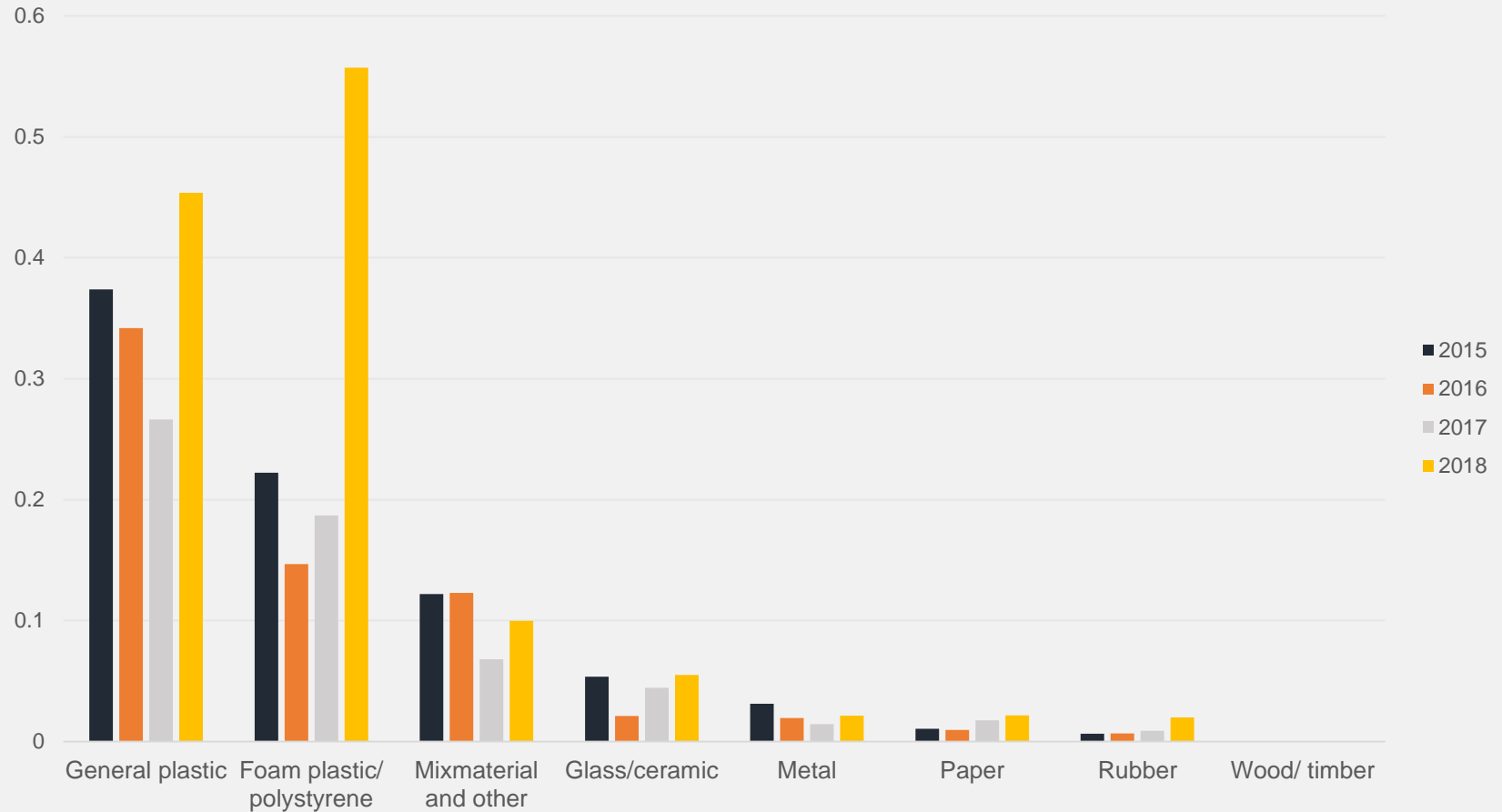
## 2018 Top 10 items by annual count accumulation rate of beach litter in Chinese coastline





# CCMC (Coastal Cleanup And Monitoring Project in China)

2015 - 2018 annual count accumulation rate of beach litter materials in Chinese coastline



## 03 Assessment of fishery-based marine litter



# Assessment of fishery-based marine litter

Monitoring sites in coastal areas of Yellow Sea

City	Sites
Dalian	3
Yantai	3
Qingdao	1
Lianyungang	1



# Assessment of fishery-based marine litter

## Fishery and Aquaculture Marine Debris Survey Workshop



# Assessment of fishery-based marine litter

## Fishery and Aquaculture Marine Debris Survey Workshop



# Assessment of fishery-based marine litter

## Items of fishing gear in data card (7)

科研监测ICC卡 (2019+渔业)

日期: 2019/11/10

站号: 001

人员: 张三

重量: 10 kg

体积: 25 g

例: 塑料 重量 = 10 = 25 g

类别	数量	重量	数量	重量
一般塑料类				
塑料中瓶			塑料瓶(带/不带盖)	
塑料瓶(带/不带盖)			塑料瓶	
塑料桶			塑料桶	
塑料盖子(带/不带盖)			塑料盖子(带/不带盖)	
塑料桶盖(带/不带盖)			塑料桶盖(带/不带盖)	
塑料桶盖			塑料桶盖	
其他塑料类			其他塑料类	
泡沫塑料类			泡沫塑料类	
泡沫塑料			泡沫塑料	
其他泡沫塑料			其他泡沫塑料	
渔具类			渔具类	
渔具			渔具	
其他渔具			其他渔具	
其他类			其他类	
其他			其他	

8 Categories | 62 Items

### General plastic      Foam plastic/polystyrene

Hard plastic buoy

EPS buoy

Cage (creel/jar/...)

Foam box

Fishing line

Foam fragment

Rope

Fishing net





# Assessment of fishery-based marine litter



# Assessment of fishery-based marine litter





# Assessment of fishery-based marine litter

- **Conduct fishing gear monitoring**

We will cooperate with the 6 partner organizations to carry out fishing gear monitoring at 8 sites 3 times from late May to late September. So 24 monitoring activities will take place.

- **Make monitoring report**

We will write the monitoring report after all planned monitoring activities are executed. Then we will ask OSEAN to review it and we will also visit them for an in-person discussion. The report will be finalized in November.



# Thanks!

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