



Partnerships in Environmental Management for the Seas of East Asia (PEMSEA)



## Pollution reduction and waste management: PEMSEA's approach

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**EAS Congress**

# PEMSEA's Mission

To foster and sustain healthy and resilient coasts and oceans, communities and economies across the Seas of East Asia through integrated management solutions and partnerships



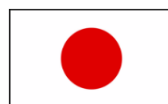
Cambodia



PR China



Indonesia



Japan



DPR Korea



Lao PDR



Philippines



RO Korea



Singapore



Timor-Leste



Viet Nam



Asean Centre for Biodiversity (ACB)



Coastal Management Center (CMC)



Conservation International (CI) Philippines



International Environmental Management of Enclosed Coastal Seas Center (EMECS)



UNEP Global Programme of Action (UNEP/GPA)



IOC Sub-Commission for the Western Pacific (IOC-WESTPAC)



International Ocean Institute (IOI)

**IPIECA**

IPIECA



International Union for Conservation of Nature - Asia Regional Office (IUCN-ARO)



Korea Environment Institute (KEI)



Korea Institute of Ocean Science and Technology (KIOST)



Korea Maritime Institute (KMI)



Korea Environment Management Corporation



Northwest Pacific Action Plan (NOWPAP)



The Ocean Policy Research Institute (OPRI)



Oil Spill Response (OSR)



Plymouth Marine Laboratory (PML)



PEMSEA Network of Local Governments (PNLG) for Sustainable Coastal Development



UNDP/GEF Small Grants Programme (SGP)



Swedish International Development Cooperation Agency (SIDA)



UNDP/GEF Yellow Sea LME Project (YSLME)



Marine Biodiversity Institute of Korea (MABIK)



# Waste management and UN SDGs

The Importance of  
Solid Waste  
Management to  
Achieving



<p><b>6</b> CLEAN WATER AND SANITATION</p>  <p>Better SWM goes hand-in-hand with better WASH</p>	<p><b>1</b> NO POVERTY</p>  <p>Waste picking is an important livelihood for the urban poor</p>	<p><b>2</b> ZERO HUNGER</p>  <p>Organic waste can fertilize new food</p>	<p><b>3</b> GOOD HEALTH AND WELLBEING</p>  <p>SWM prevents disease and food contamination</p>	<p><b>4</b> QUALITY EDUCATION</p>  <p>Environmental and health training awareness</p>	<p><b>5</b> GENDER EQUALITY</p>  <p>Relieve undue burden of poor waste management on women</p>
	<p><b>7</b> AFFORDABLE AND CLEAN ENERGY</p>  <p>Waste to energy as an optional energy source</p>	<p><b>8</b> DECENT WORK AND ECONOMIC GROWTH</p>  <p>Green job growth in collection, recycling and treatment</p>	<p><b>9</b> INDUSTRY, INNOVATION AND INFRASTRUCTURE</p>  <p>R&amp;D in recycling and treatment innovation</p>	<p><b>10</b> REDUCED INEQUALITIES</p>  <p>SWM can increase the economic potential of the urban poor</p>	<p><b>11</b> SUSTAINABLE CITIES AND COMMUNITIES</p>  <p>SWM makes cities more sustainable</p>
<p><b>12</b> RESPONSIBLE CONSUMPTION AND PRODUCTION</p>  <p>Shift to waste reduction and resource management</p>	<p><b>13</b> CLIMATE ACTION</p>  <p>Reduce GHGs through less dumping and burning</p>	<p><b>14</b> LIFE BELOW WATER</p>  <p>Prevent plastic pollution in the ocean that harms sea life</p>	<p><b>15</b> LIFE ON LAND</p>  <p>Less land pollution leads to healthier environments</p>	<p><b>16</b> PEACE, JUSTICE AND STRONG INSTITUTIONS</p>  <p>Better governance of environment and resources</p>	<p><b>17</b> PARTNERSHIPS FOR THE GOALS</p>  <p>Work together and create public-private partnerships</p>

Graphic supplied with assistance from Zoë Lenkiewicz, WasteAid UK and contributor to Be Waste Wise.

# PEMSEA strategy/actions on pollution reduction and waste management (SDS-SEA 2018-2022)

- 1.ENHANCE** accession to and/or compliance with relevant international conventions/agreement (UN SDG, Aichi Biodiversity Targets, IMO conventions, ASEAN Cooperation Plan for transboundary pollution Global Plan of Action for the Protection of Marine Environment from Land-Based Activities)
- 2.REDUCE** marine pollution loadings in PEMSEA partner countries (marine debris, plastics/microplastics and nutrient pollution)
- 3.DEMONSTRATE** good practices and experiences in integrated river basin and coastal area management for improved source to sea governance, management and investments in the East Asian region.

CONVENTION	MARPOL 73/78					LONDON CONVENTION		COLREG Convention	Intervention		CLC			FUND		
	Annex					Convention	Protocol		Convention	Protocol	Convention	Protocol	Protocol	Convention	Protocol	Protocol
COUNTRY	I/II	III	IV	V	VI	72	96	72	69	73	69	76	92	71	92	03
Brunei Darussalam	86	16A		16A				87			D	92	03	D	03	
Cambodia	95	94	94	94				94			95	01	01		02	
China	83	94	06	88	06	85	06	80	90	90	D	D	00	D	*00	
DPR Korea	85	85	85	85				85a								
Indonesia	86	12	12	12	12			79A			78		00	D		
Japan	83	83	83	83	05	80	07	77	75		D	94	96	D	96	05
Lao PDR																
Malaysia	97	10	10	97	10			80			D		05	95	05	
Philippines	01	01	01	01		73	12	13					98		98	
RO Korea	84	96	04	96	06	93	09	77A			D	93	98	D	98	10
Singapore	91	94	05	99	00			77			D	82	98		98	
Thailand	08							79					17a			
Timor-Leste																
Viet Nam	91	x	x	x	x			90					04			

**Legend:**

Numbers represent year of ratification/accession

Y – Participated in the Conference    ^ – Signature

W – Withdrawn

\*\* – Only at conference, does not indicate status of current participation

r – ratification

\* – Year of entry into force

a – accession

AA – approval

s – signature

A – acceptance

# Supporting a circular economy approach to reduce marine plastics pollution in Asia

- **Develop an enabling environment** to support circular plastics economy
- **Mobilize finance and investments** to implement circular plastics solutions
- **Implement innovative sustainable production and consumption** (alternatives to single use plastics)
- **Share knowledge, build capacity**

# Two pronged approach

## 1. Major producers/users of plastic

## 2. Local government units







# UNDP/GEF/ASEAN Project: Reducing Pollution and Preserving Environmental Flows in the East Asian Seas through the Implementation of Integrated River Basin Management in ASEAN Countries

## Designated River Basins/Coastal Areas

- Cambodia: Kampong River (Kampong Bay)
- Indonesia: Ciliwung River (Jakarta Bay)
- Lao PDR: Louangnamtha River (Mekong River)
- Malaysia: Keda-Muda River Basin (Kota Setar-Kuala Muda)
- Myanmar: Bago-Yangon Rivers (Gulf of Martaban, Andaman Sea)
- Philippines: Imus Ylang-Ylang Rivers (Manila Bay)
- Vietnam: Vu Gia-Thu Bon Rivers (Da Nang Bay)





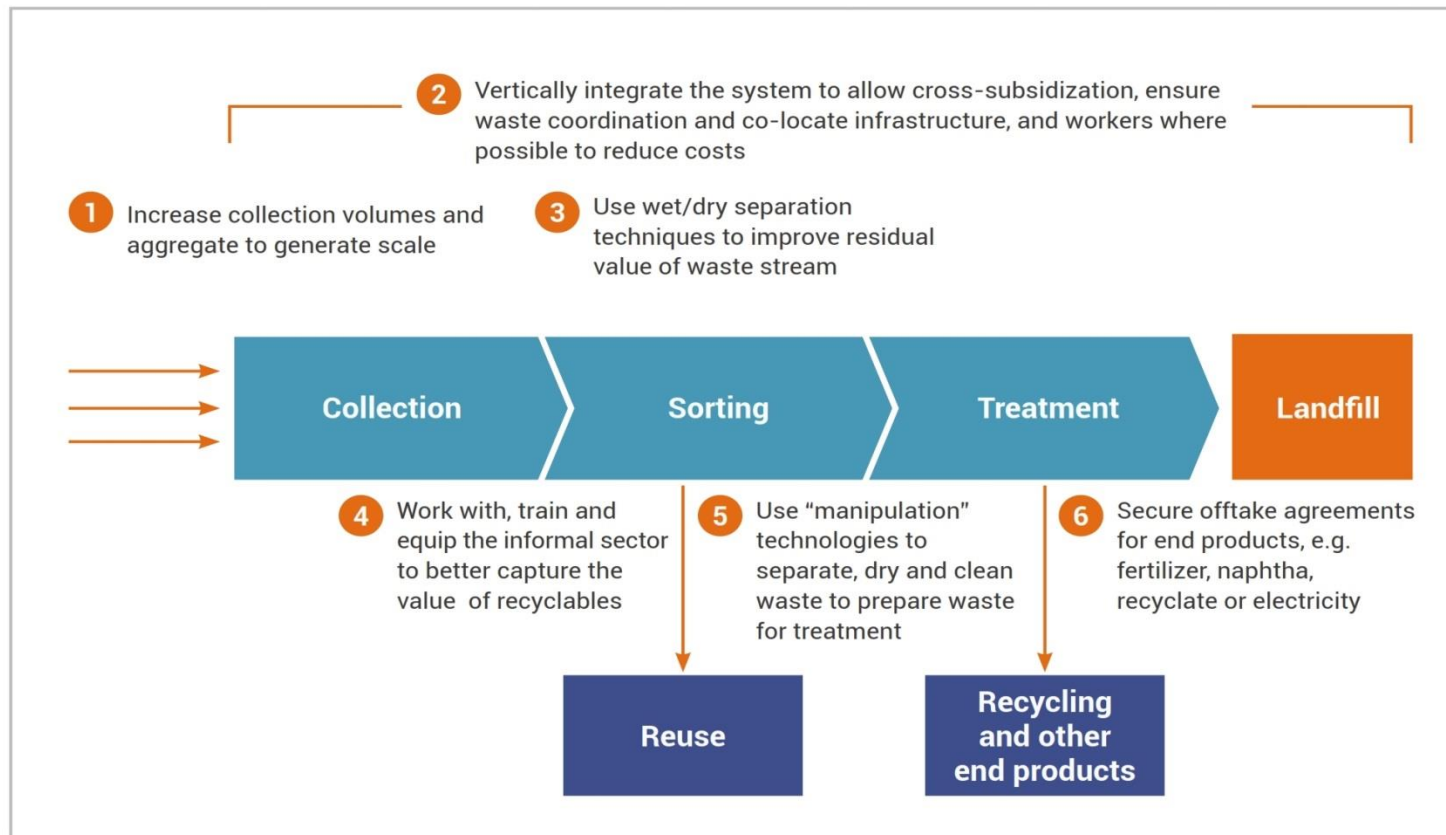
# PEMSEA and proposed marine litter platform

- Help identify **empirical driven research agenda and potential researchers** (ex.PNLC)
- Conduct **joint research initiatives** (ex. pollution origin and composition, microplastics in inland water bodies, circular plastic solutions)
- **Co-organize events at regional/global events**  
(PEMSEA Partnership Council, IMO meetings, Our Ocean Conference, World Circular Economy Forum, World Economic Forum, GEF assembly)
- **Utilize SeaKB as online sharing platform** – need partners and funding

# Data/ information barrier to policy reform and behavioral change

- **Lack of data** on hazards, risks, impact and mitigation measures of waste management **greatly inhibit decision making**
- **Limited awareness and understanding** among the general public on the **scope and seriousness of marine pollution issue** (health, environment, ecosystem, economy) as well as **solutions and practical actions**

# Improving the economics of waste management is challenging



Trash Free Seas Alliance and Ocean Conservancy, 2017. *The Next Wave: Investment Strategies for Plastic Free Seas*.



# Seas of East Asia Knowledge Bank (seaknowledgebank.net)



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## Coastal Resources for Sustainable Development



The Seas of East Asia (SEA) Knowledge Bank serves as a knowledge platform for policymakers, planners, managers, investors and other stakeholders to scale up Integrated Coastal Management (ICM) and investment in sustainable development of coasts and oceans across East Asia.

The platform provides access to a collection of case studies, manuals, technical reports and other resources, along with opportunities for engaging and collaborating with peers and experts and guidance for jumpstarting coastal management programs, or taking them to the next level. The platform also supports local governments and other stakeholders in identifying and developing projects that could attract investment, including a series of rapid assessments and the ability to submit a project for further evaluation.



### E-Library

Find resources on ICM and blue economy



### State of the Coasts Reporting

Indicators for the governance and health of your coastline



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