



MINISTERIAL
CONFERENCE
TORREMOLINOS, SPAIN
21-23 OCTOBER 2019

SAFE FISHING
LEGAL FISHING

Session 7 – MARINE DEBRIS FROM FISHING VESSELS



Participants



- **Basilio Araujo**, Assistant Deputy Minister. Coordinating Ministry for Maritime Affairs of Indonesia.
- **Vicki Hall**, Director, Waste Management and Pollution Control, Secretariat of the Pacific Regional Environment Programme.
- **Azara Prempeh**, Minister and Alternate Permanent Representative of Ghana to the IMO. Chair of the Meeting of the Contracting Parties of the LC/LP (IMO).
- **Deirdre Warner-Kramer**, Acting Deputy Director, Office of Marine Conservation, Department of State U.S. Department of State.
- **Miguel Nunez-Sanchez**, Independent expert, Universidad Politecnica de Madrid.

Objectives of the Panel Discussion

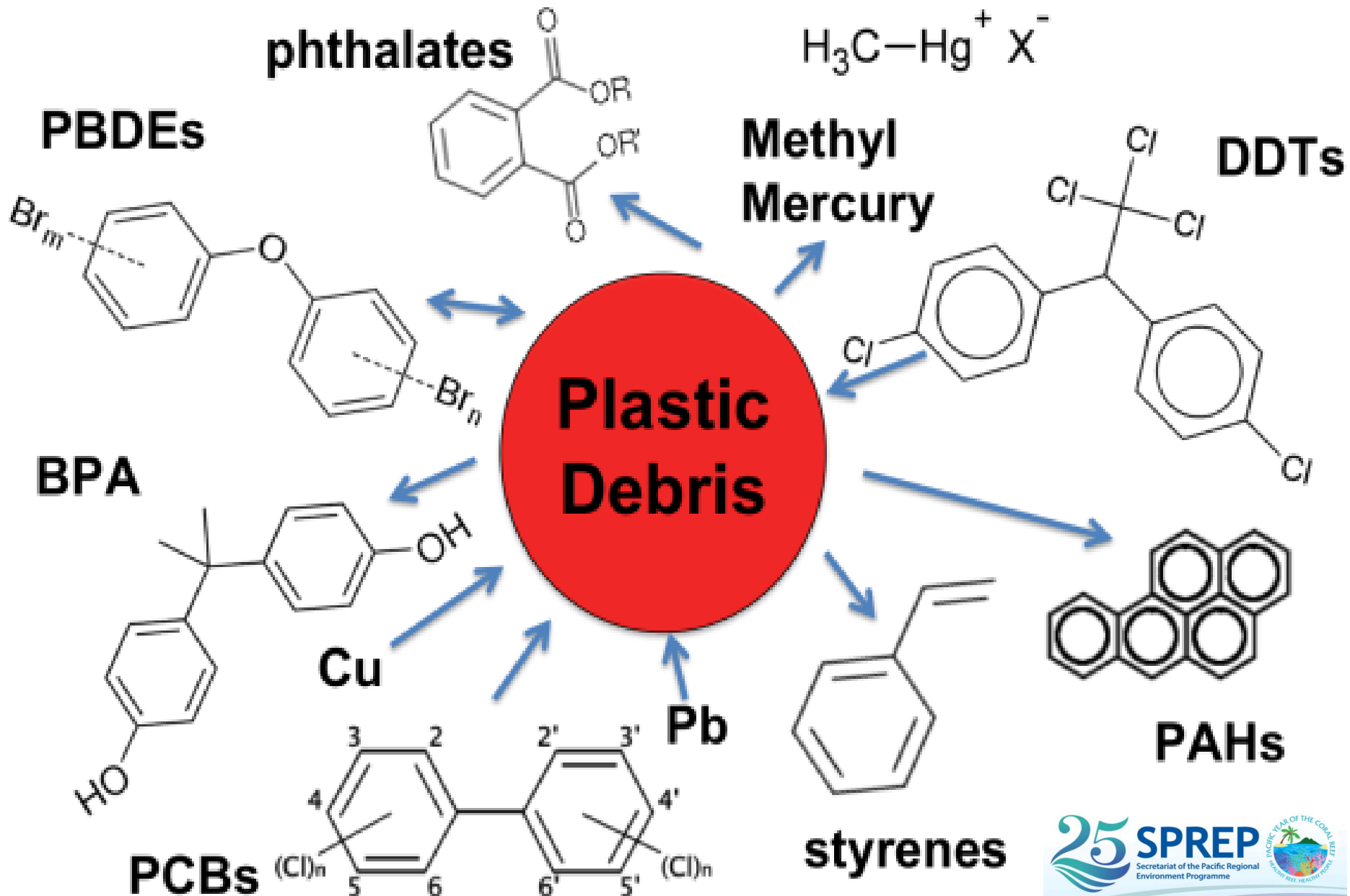


Highlight steps that can be taken to decrease instances of pollution of the marine environment

and

Outline policies that can assist with the impacts of marine debris in connection with the CTA2012 and other IMO Conventions such as the STCW-F and MARPOL

“Cocktail” of Chemical Contaminants



Plastic Marine Debris



- Threatens human health and the survival of many marine organisms;
- Ingestion of micro-plastics by fish may also be a pathway for transport of harmful chemicals into the food web;
- Can pose a safety and navigational hazard for maritime transport and may result in financial losses.

(cont)



Plastic Marine Debris



- **Biosecurity may be compromised; and**
- **Is aesthetically a problem on beaches, shorelines, lagoons and estuaries.**

The cost to global environment in the consumer goods industry is estimated to more than US\$75m billion per year

Sources of high risk identified



....include fishing vessels and their operations, such as:

- **Accidental and deliberate discharge into the sea of garbage generated during normal vessel operations;**
- **Shipboard food and beverage containers and packaging that should be stored on board until offloading at a suitable port;**

(contd)

Sources of high risk identified



...include fishing vessels and their operations, such as:

- Tangled nets and monofilament line disposed at sea; and
- lost gear, such as long lines, fish aggregation devices and nets that drift and are then termed “ghost nets”.

Safety Standards for fishing vessels



- **If you have good quality modern boats it is in the best interest of the owners that the boat is well maintained and will reduce accidents and crew well trained to reduce accidents and subsequent loss of productivity/profits.**
- **More modern boats will be more likely to have access to waste reception facilities.**



- UN Measures at the level of its Agencies
- National and Regional level Measures
- Interagency Level measures.

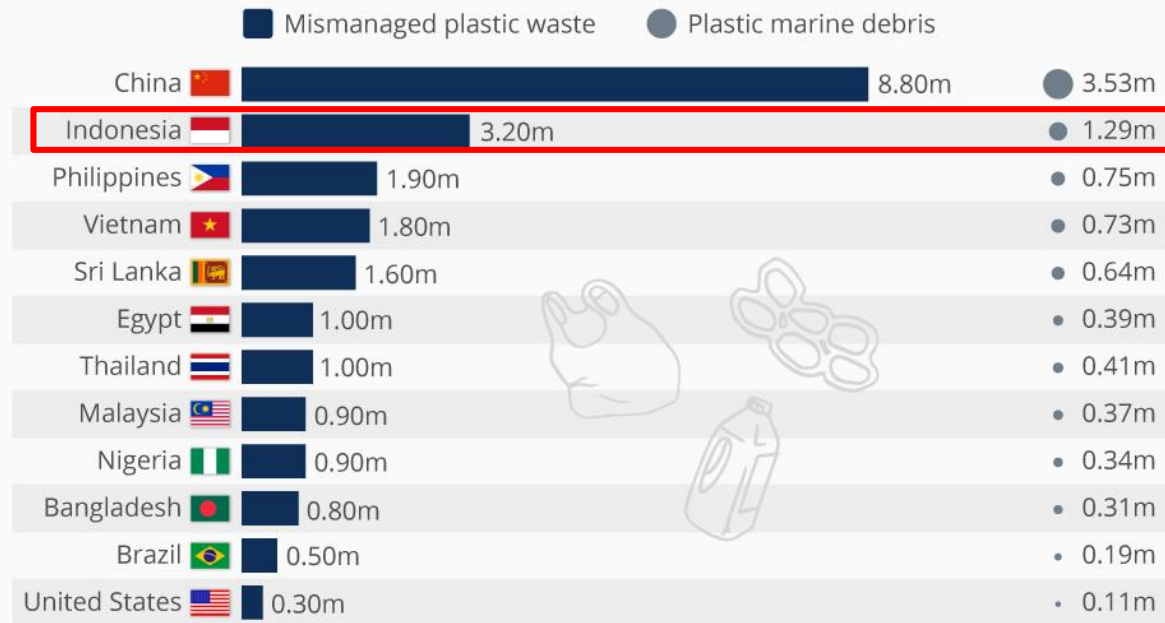




Indonesian Initiatives

The Countries Polluting The Oceans The Most

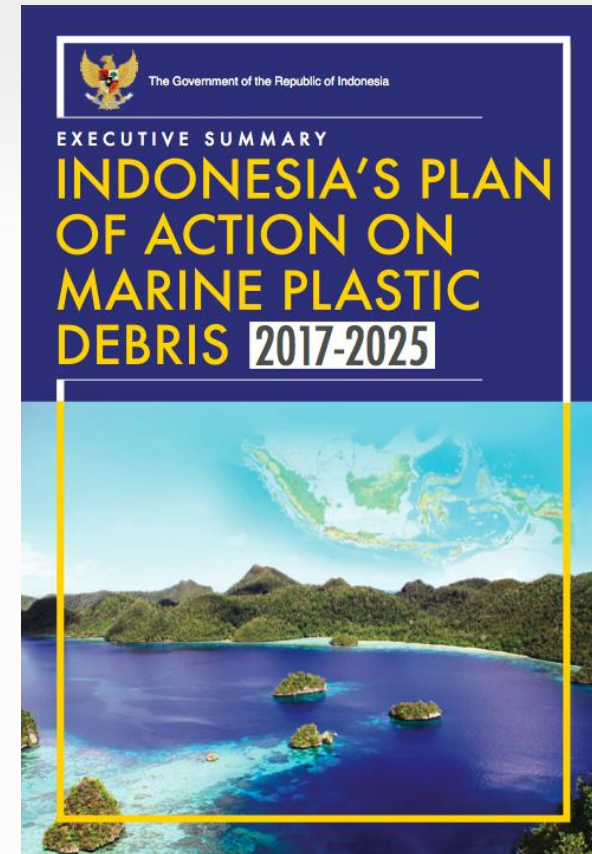
Annual metric tons of mismanaged plastic waste and total amount ending up in global waters*



* Generated in 2010 (selected countries)

@StatistaCharts

Source: The Wall Street Journal





Fishing Gears and Marine Plastic Debris: A Threat to Food Security



NEWS > NATIONAL

6 kg of garbage found in dead whale's stomach in Wakatobi

News Desk

The Jakarta Post

Jakarta / Wed, November 21, 2018 / 08:39 am



- Death of a huge whale of 10 meters found in a well-known diving site in Indonesia called Wakatobi.
- In the belly of this huge whale was found 5.9 Kg of plastic debris:
 - Hard plastic 140 gr
 - Plastic bottle 150 gr
 - Plastic bag 260 gr
 - Sandal 270 gr
 - Fishing Gear 3,26 kg
 - Plastic cups 750 gr



■ Research results:

- **In 2018, it was found 10-20 particles of microplastics per Kilogram of Salt at the Java area and South Sulawesi salt production area.**
- **The highest contaminated shore is in Jakarta and South Sulawesi with around 7.5 to 10 particles of microplastic per cubic meter.**
- **Fish was found being contaminated by plastics.**

Mengkhawatirkan, Mikroplastik Ditemukan dalam Garam dan Ikan di Indonesia

Loretta Novella Putri - Senin, 3 Desember 2018 | 15:20 WIB



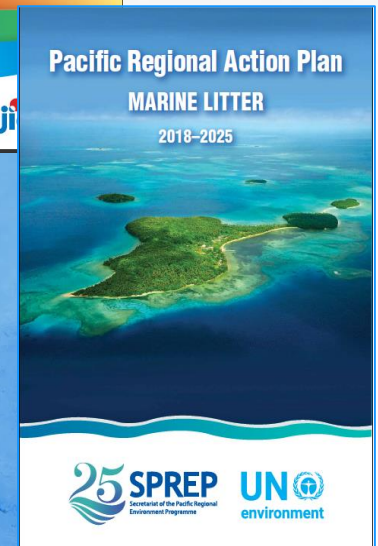
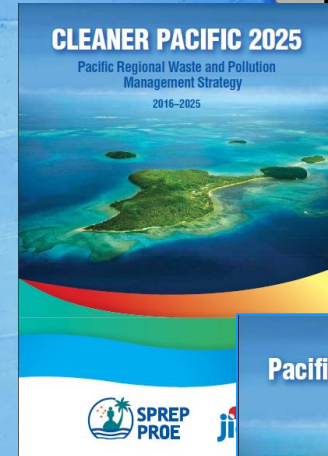
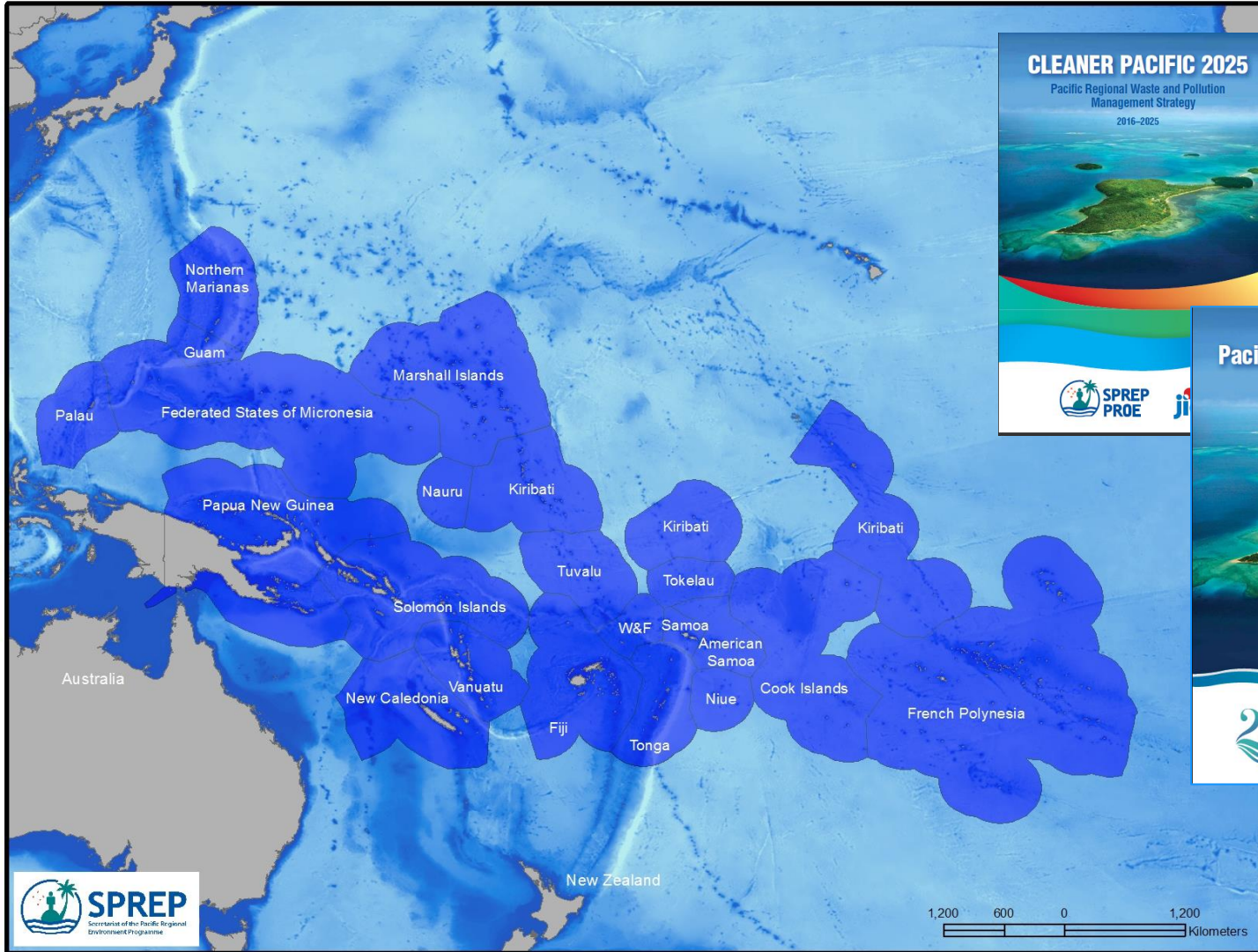
Tunatura/Getty Images/Stockphoto

Ilustrasi mikroplastik yang mengapung di lautan

Nationalgeographic.co.id - Pencemaran [plastik](#) di laut semakin hari semakin mengkhawatirkan. Selain meracuni organisme di laut, pencemaran ini juga turut mengancam kesehatan manusia. Dalam penelitian terbaru, [garam](#) dan ikan di Indonesia pun sudah terkontaminasi [mikroplastik](#).

[Mikroplastik](#) pada [garam](#) dan ikan di Indonesia terungkap dalam dua penelitian terpisah yang dilakukan oleh peneliti Universitas Hasanuddin Makassar dan Pusat Oceanografi Lembaga Ilmu Pengetahuan Indonesia.

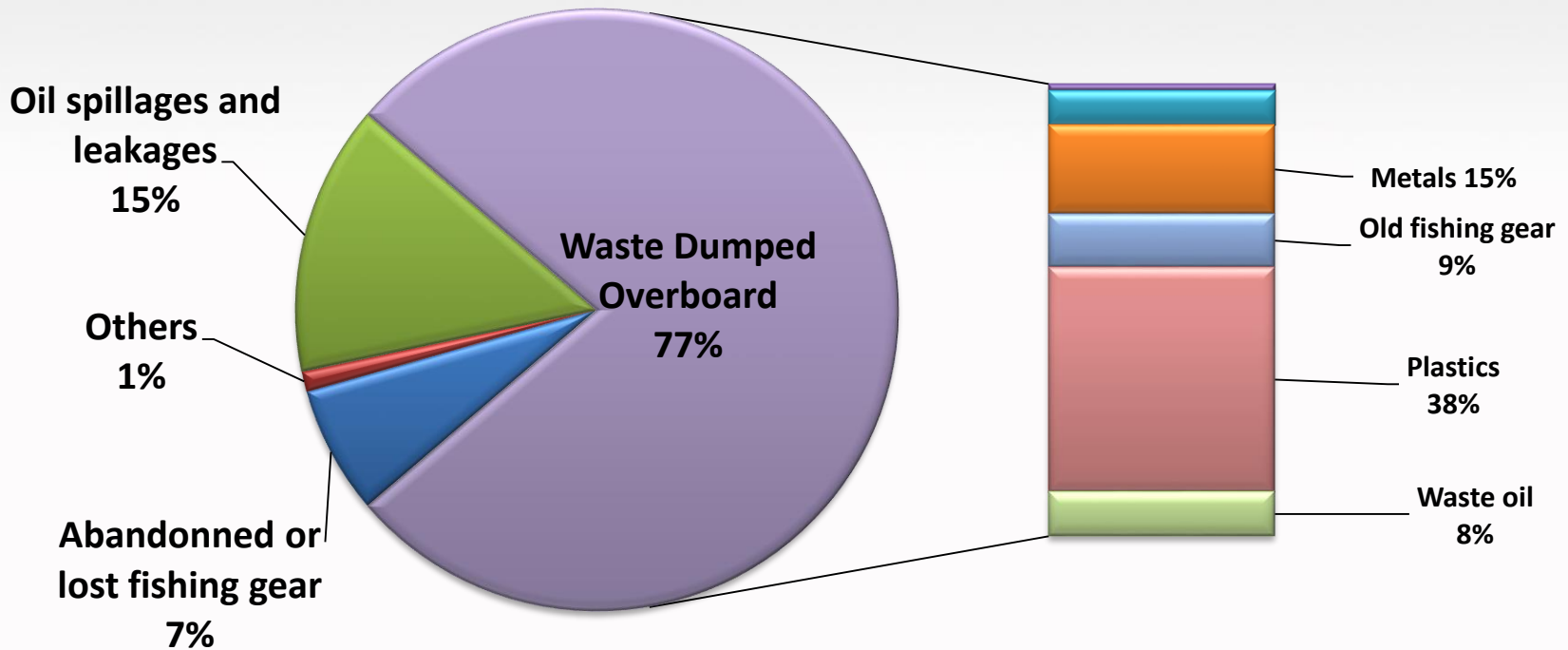
Initiatives. SPREP



SPREP: the value of data. Marine sourced pollution



Incidents by Pollution Types 2003-2018





Western Central Pacific Fisheries Commission Action

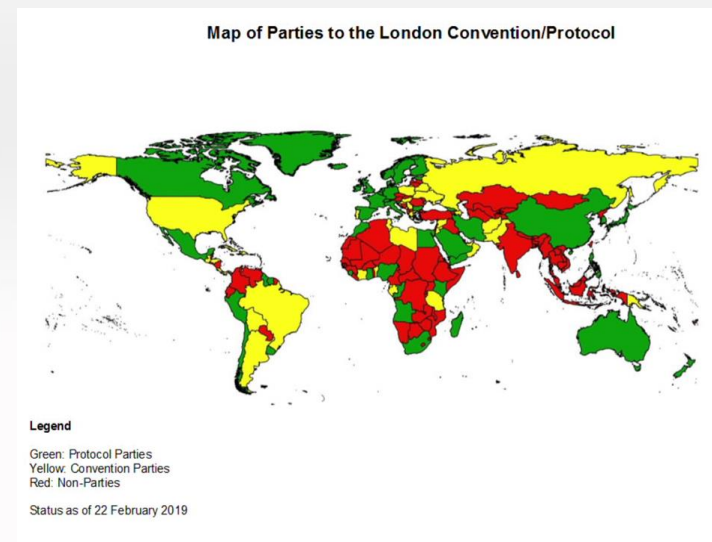
- RMI-led Conservation Management Measure (CMM) 2017-04 was adopted and entered into force 1 January 2019
- Seeks to protect marine ecosystems from environmental degradation and minimise incidental mortality of non-target species by addressing marine pollution emanating from fishing vessels
- **Bottom-line: need to conserve and protect the natural resource that the fishing industry relies on**





London Convention, 1972, with "black- and grey-list" approach applied for wastes, which can be considered for disposal at sea;

1996 Protocol to the London Convention of 1972, developed in furtherance of a more precautionary and preventive approach (marine geoengineering, carbon capture and storage ...).



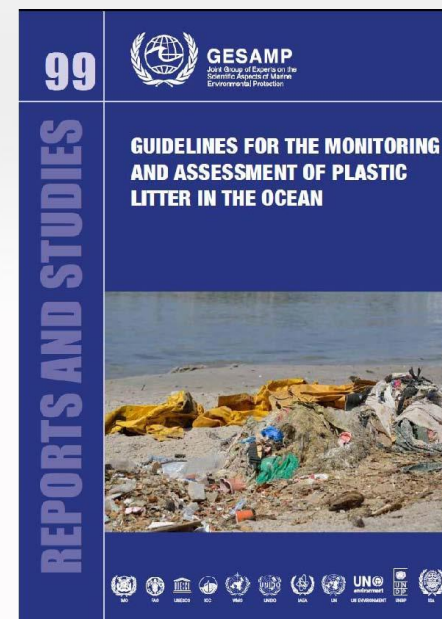


- **Global partnership on marine litter (GPML)**
- **Joint Group of Experts on the Scientific Aspects of Marine Environment Protection (GESAMP)**





- **GESAMP**
- **Working Group 40: Sources, fate and effects of plastics and micro-plastics in the marine environment**
- **2019 publication ‘*Guidelines for the Monitoring and Assessment of Plastic Litter in the Ocean*’**
- **New Working Group on sea-based sources of marine litter (WG 43) - co-led by FAO and IMO**





- **Draft inventory of the work carried out by LC/LP bodies on the issue of marine litter and microplastics;**
- **Consultant to take forward the LC/LP work on marine litter and microplastics, including providing further information on source control options (upstream); and**
- **LC/LP Scientific Groups to further explore actions within the instruments**



© Dave Bretherton | Olive Ridley Project

Actions From the Fisheries Side



- **FAO COFI**
- **Voluntary Guidelines on the Marking of Fishing Gear, Global Strategy, Technical Work**
- **Regional Fisheries Management Organizations**
- **Conservation and Management Measures**
- **Public-Private Initiatives**
- **Industry Innovation, Training Programs**





Challenges



- **MARPOL...**Marking of fishing gear, make 2010 guidelines mandatory 2010..)
- Storage on board fishing vessels
- **Port Reception Facilities**
- Segregation
- Spotting fishing gear and recovery
- Reuse plastic
- **Ban Single use plastics**
- **Microplastics**

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- Thanks for your attention



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■ Panel Discussion...





- **President Jokowi of Indonesia has committed so that Indonesia reduces wastes through reduce-reuse-recycle up to 30% until 2025, while targeting reduction of marine plastic debris as much as 70% by 2025.**
- **Minister of Marine Affairs with its Coordinating Department and Fisheries of Indonesia is also shown a very strong commitment.**



- On the issue of plastic debris from fishing vessels apart from ALDFGs, not much have been done so far.
- This is due to the fact that the Southeast Asia Countries are now focussing on their efforts to ratify the instruments to fight IUUF fishing such as the PSMA, CTA2012, STCW-F and WFC2007



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■ Panel Discussion...



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