

A One Health Approach to Regulating Ocean Microplastics: Translating Advocacy into Implementation: Conclusion

March 28, 2022

Side Event at APFSD 2022

Marine Plastics Abatement (MPA) School of Environment, Resources and Development (SERD) Asian Institute of Technology



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Professor and Academic Chair (Marine Plastics Abatement Program)

Old The Ocean & Microplastics: One Health Approach

Session

OD2 Global Plastics Outlook

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Microplastic monitoring and surveys regarding plastics leakage

Brief Summary

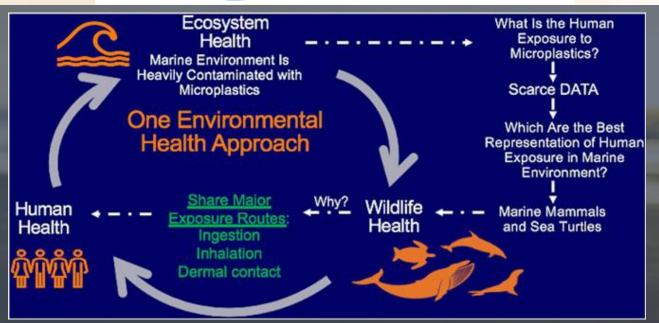
Scientific research on One Health is barely connected to the Ocean decade thematics

The Ocean decade document does not reflect the results of the ongoing scientific research

01 One Health & the

Ocean

- Interdisciplinarity and inter-sectorality
- A full life cycle approach for microplastics

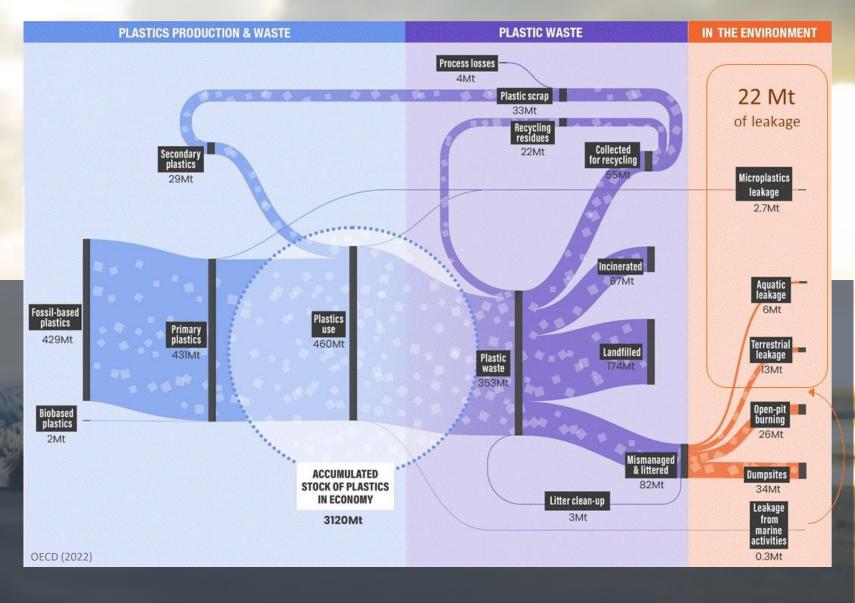


Prata et al. (2021) A One Health perspective of the impacts of microplastics on animal, human and environmental health, SC. of the Total Environment.

Brief Summary

02 Global Plastics Outlook

Rivers are a key pathway and sink for aquatic leakage

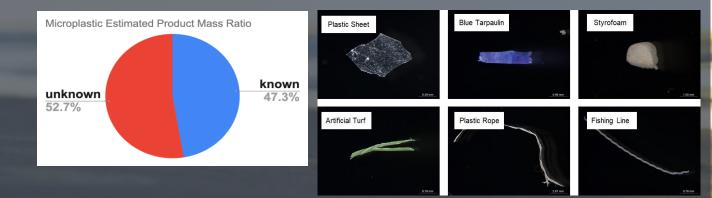


Brief Summary



03 Microplastic monitoring and surveys regarding plastics leakage

- Developed an affordable and versatile sampling device
- Collaborating with universities and plastics processing companies to analyze and identify samples in-depth

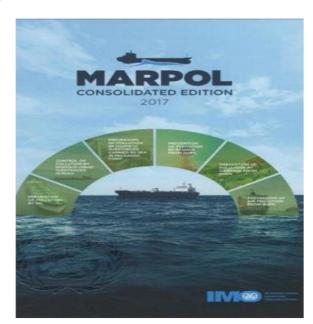




04 Tackling the Issue of Marine Plastic Litter from Ships

challenges to tackle Marine Plastic Litter requires cross sectorial and intra/multi agencies cooperation with a high level of engagement







Challenges and Future trends

- Local, regional, and international governance
- Effective management systems on the plastic litters
- Application of "Circular Economy"
- Capacity and Capability Development
 - Innovations and technologies
 - Human resources and new expertise
 - Transfer pollution controls into sustainable businesses





Geoinformatics Center

(GIC)



Practical sessions on "Micro-plastic Investigations in Mangroves" of ED89.03 course module: Marine Ecosystems and Emerging Pollution









Hands-on experience on 'turning trash into cash by Precious Plastic Bangkok

Upcycling Plastic Waste: The use of YOLO Extruder Machine)

THANK YOU