



Global Plastic Pollution Reduction and Activities Restoring Biodiversity

Jeju Plus International Environment Forum 2022

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About IUCN

- International Union for Conservation of Nature (IUCN) is a membership Union composed of both government and civil society organisations.
- www.iucn.org

18,000 Scientific Experts and 6 science commissions 1,400
Member
organisations
(NGOs,
indigenous
peoples
orgs)

211 States and Government Members

Work in 160+ countries, with 11 Regions



Today's Talk

- Plastic Pollution: Biodiversity Impacts
- Plastic Pollution: Measurement and Reduction Activities
- Measuring Biodiversity
- Restoring Biodiversity





Plastic Pollution: Biodiversity Impacts

- A direct and deadly effect on wildlife and on biodiversity (IUCN, 2021)
- 1,000s of seabirds, sea turtles, and marine mammals are killed each year after ingestion or entanglement (Center for Biological Diversity, 2022, IUCN, 2021)



Credit: Jordan Robins / Ocean Image Bank



Plastic Pollution: Biodiversity Impacts

- 700+ species of marine animals have been found with plastics in their digestive tracts (Lechter and Vallero, 2019)
- Coral reefs have been deemed 89% more likely to develop disease in the presence of plastic (Reef-World, UNEP, 2019)



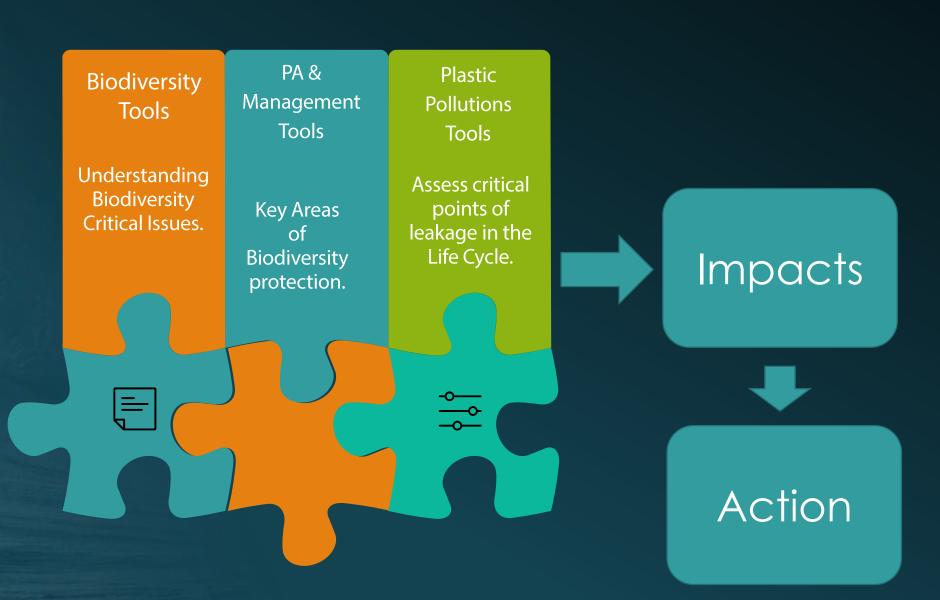


Plastic Pollution: Biodiversity and Economic Impacts

- On fisheries Abandoned, Lost, Discarded Fishing Gear
- Tourism revenue and employment
- Broader dimensions: export revenue, employment, food security, marine ecosystems



Linking Biodiversity Conservation and Plastic Pollution





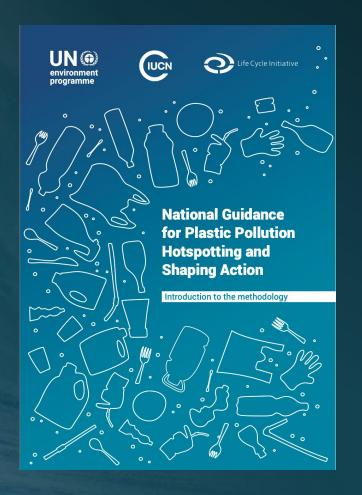


2019 IUCN Review of:

- Existing and emerging methodologies to identify the abundance, distribution, types, sources, pathways and sinks of plastic pollution at different scales.
- The state of knowledge for impact assessment, monetary valuation methodologies, and a glossary of key terms related to plastics, marine plastics and environmental footprints.

Review of plastic footprint methodologies https://portals.iucn.org/library/node/48510







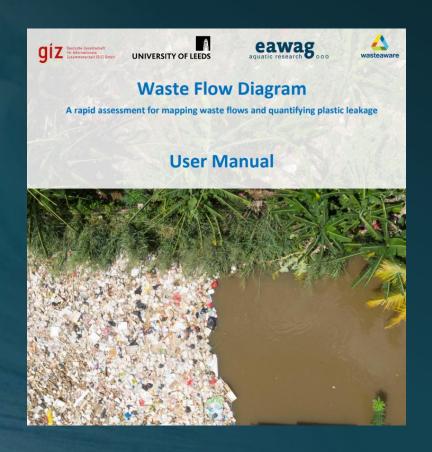
2020 UNEP/IUCN Guidance for countries to:

- Identify key hotspots of plastic polymers, products, and pathways leaking into the environment, as well as associated impacts
- Together with key stakeholders, prioritise key interventions along the plastic value chain
- Support governments in converging towards instruments to implement the interventions

UNEP/IUCN National Guidance for Plastic Pollution Hotspotting and Shaping Action https://plastichotspotting.lifecycleinitiative.org/







GIZ 2020 guidance for countries to:

- To estimate the amounts of plastic leakage into the environment
- To visualise the quantities of municipal solid waste streams within a waste management system
- To plan waste projects, especially about marine litter prevention
- To monitor the effectiveness of applied waste interventions







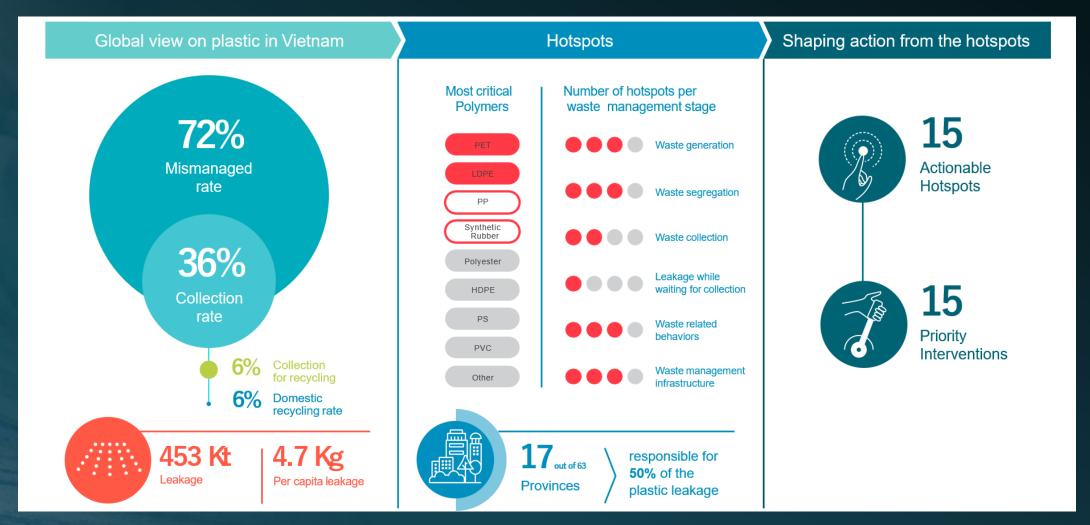
UN Habitat Waste Wise City Tool is for cities to:

- Use seven steps to collect data on municipal solid waste generated, collected, and managed in controlled facilities.
- The tool provides a household survey guide to estimate total waste generation, a questionnaire to investigate the solid waste recovery chain and criteria to check the environmental control level of waste management facilities in the city.

UN Habitat Waste Wise Cities Tool https://unhabitat.org/waste-wise-data



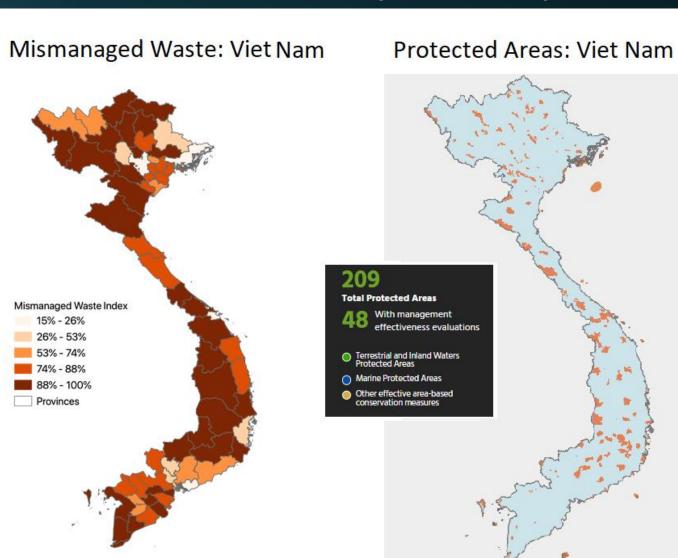
Once national plastic pollution is assessed



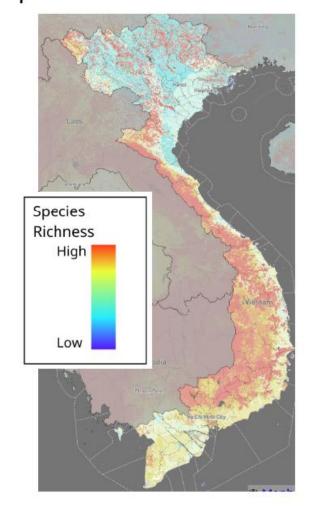
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Once national plastic pollution is assessed



Species Richness: Viet Nam



Open Data 2021, Mapshaper



Measuring Biodiversity

Integrated Biodiversity Assessment Tool

- Identify native species
- Identify protected area boundaries
- Inform a preliminary determination of Critical Habitat
- Identify conservation experts/organisations for planning













IUCN Green List of Protected Areas





IUCN Green List of Protected and Conserved Areas: Standard, Version 1.1

The global standard for protected areas in the 21st Century



https://iucngreenlist.org/



The IUCN Green List is a global campaign for successful nature conservation.

At its heart is the **Green List Sustainability Standard** that provides a global benchmark for how to meet the environmental challenges of the 21st century.

The IUCN Green List offers **locally relevant expert guidance** to help achieve fair and effective nature conservation results in protected and conserved areas.

It can help guarantee that wildlife and ecosystems can survive, thrive and bring value to communities.



Protecting and Restoring Biodiversity



Credit: Andre Gunther

- National biodiversity assessments
- Source-to-sea approaches
- National Biodiversity Strategy Action Plan Steering Committees: multi-stakeholders, communities, sectors



Protecting and Restoring Biodiversity



Credit: Livelihoods Fund

- Set targets and actions
- Build capacity to reduce pressure on biodiversity
- Biodiversity management and species management are linked to waste management polices and action
- Need key indicators and metrics for measurement for monitoring of plastic waste and leakage



What can Jeju and the Republic of Korea do?





Collaboration opportunities:

- Understand the national plastic pollution situation
- Review the Master Plan for Ocean and Fisheries Development (2021~2030) for gaps on plastic pollution impacts
- Assess policy integration aspects for plastics, waste management, tourism, and fisheries
- Prepare for the Global Plastics Treaty
- Expand Circular Economy practices, recycling
- Technology and knowledge transfer to SIDS, LDCs leapfrogging technical barriers to progress – mainstreaming Jeju's and Korea's knowledge and leadership



Thank you! IUCNOcean IUCN Plastics











