



MARPLASTICCS
MARINE PLASTICS AND COASTAL COMMUNITIES

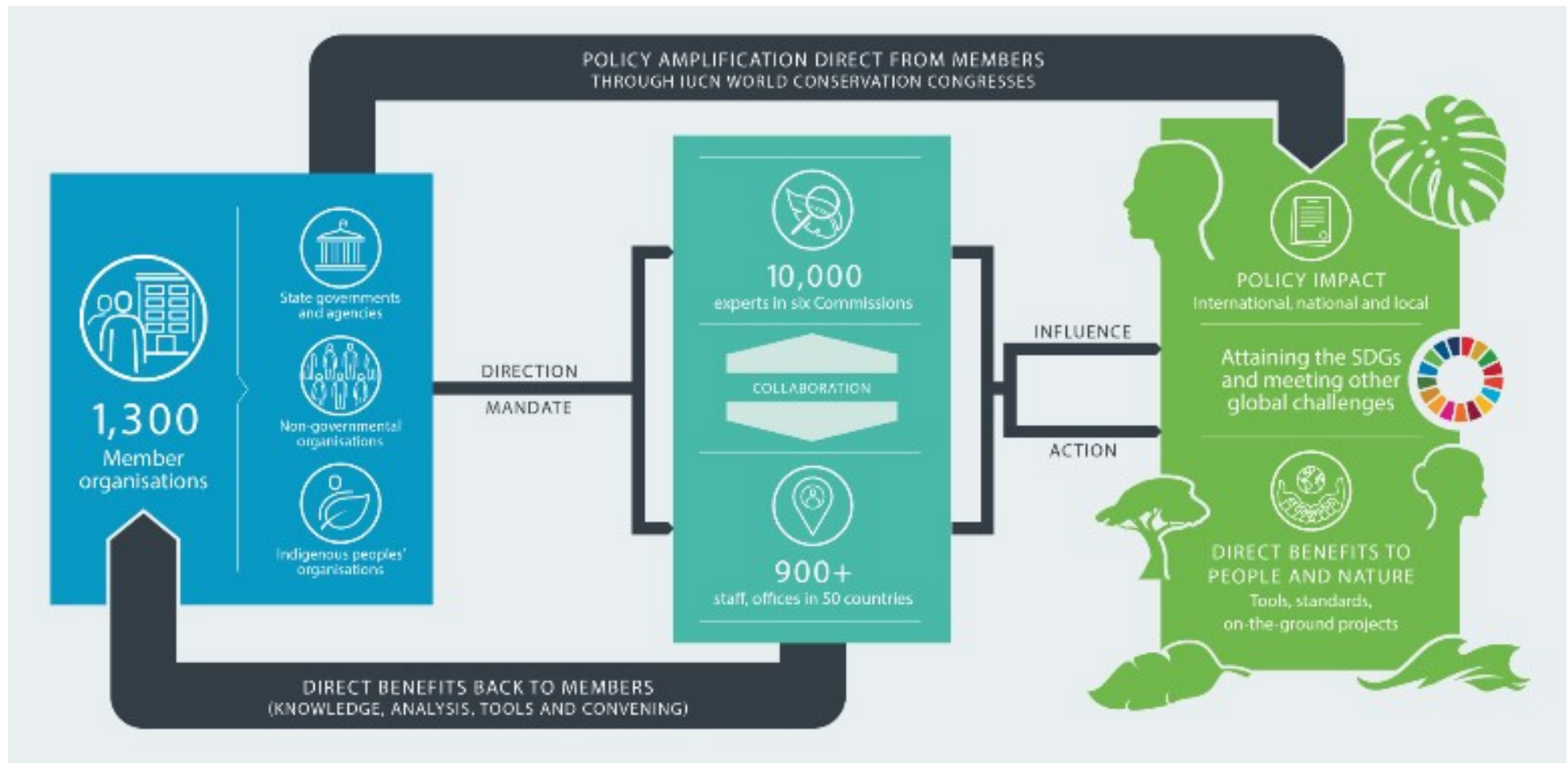


The MARPLASTICCS Initiative

Marine Plastics and Coastal Communities

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IUCN – the world's largest environmental network





THE PLASTICS CRISIS



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A global issue

- Billions of people depend on oceans for their livelihoods, which are currently being seriously threatened by plastic pollution.
- The equivalent of one dump truck full of plastic flows into the ocean every minute, and that figure is increasing.
- Plastic pollution
 - aggravates climate change
 - gets into our food and water
 - is a hazard to the health of people



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A global issue

SDG 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development.

Target 14.1. By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution.

SDG 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture

SDG 3. Ensure healthy lives and promote well-being at all stages. Target 3.9. By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.

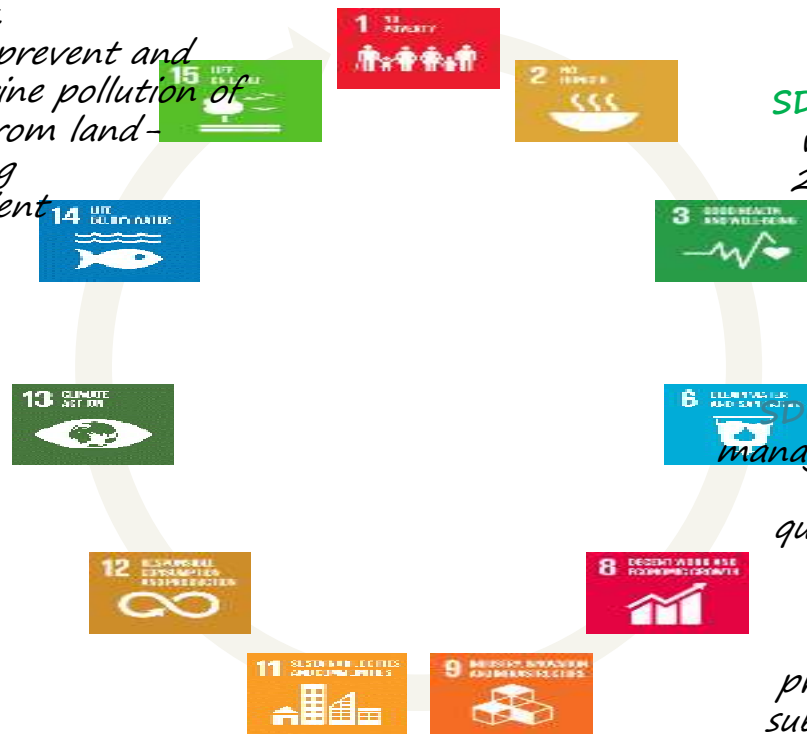
SDG 12. Ensure sustainable consumption and production patterns.

Target 12.5. By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse.

SDG 6. Ensure availability and sustainable management of water and sanitation for all. Target 6.3. By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally.

SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable.

Target 11.6. By 2020, reduce the adverse per capita environmental impact of cities including by paying special attention to air quality and municipal and other waste management.



The situation is dire

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Dead sperm whale found in Indonesia had ingested '6kg of plastic'

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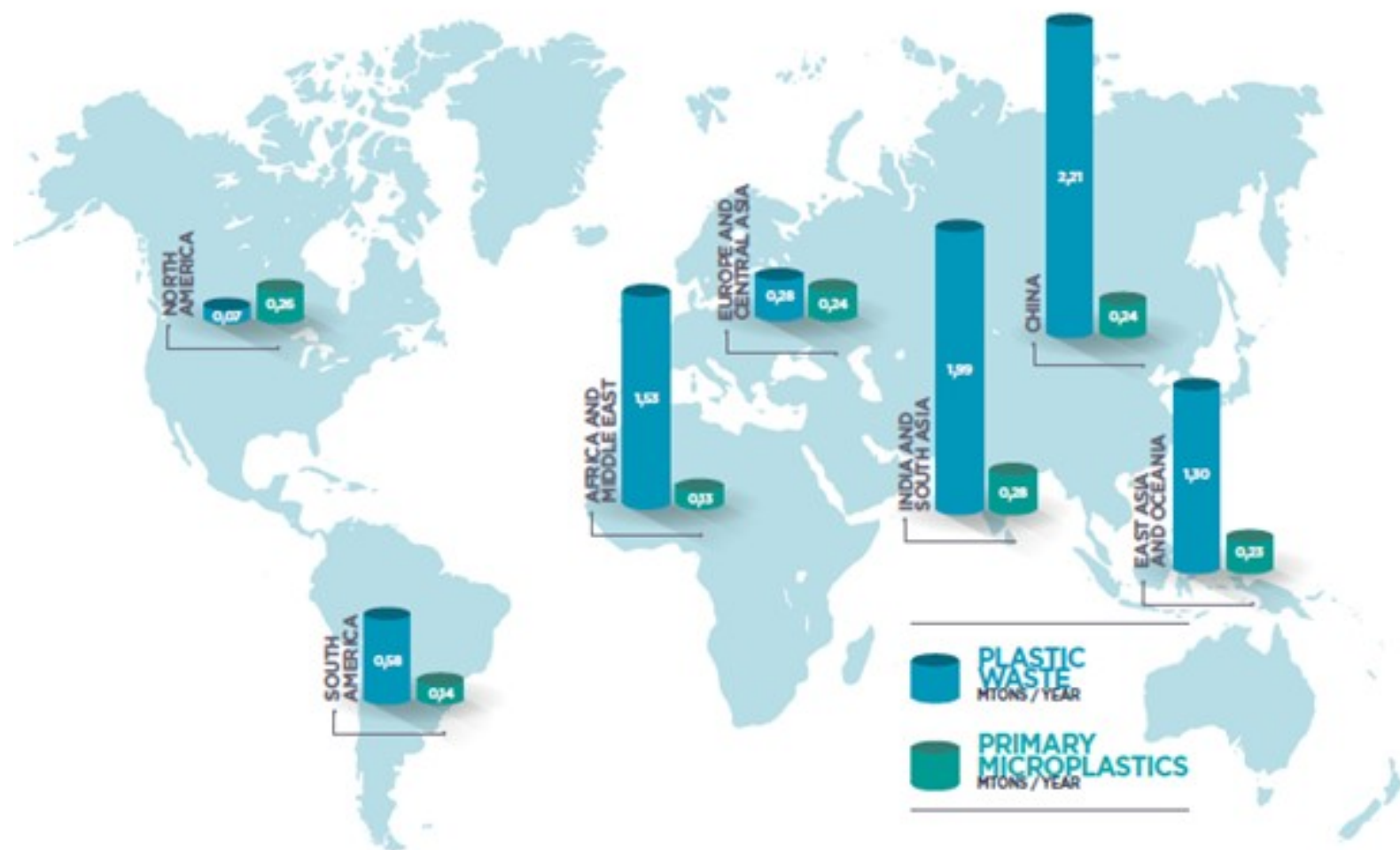


REUTERS

Items found inside the whale included drinking cups, plastic bottles, plastic bags and flip-flops

GLOBAL RELEASES TO THE WORLD OCEANS:

COMPARISON WITH PLASTICS ORIGINATING FROM MISMANAGED WASTES



Primary Microplastics
in the Oceans:
A Global Overview 2019
Authors: Anne Marie Perle, Jennifer
Thompson



Where does it come from?

8 million tons/year

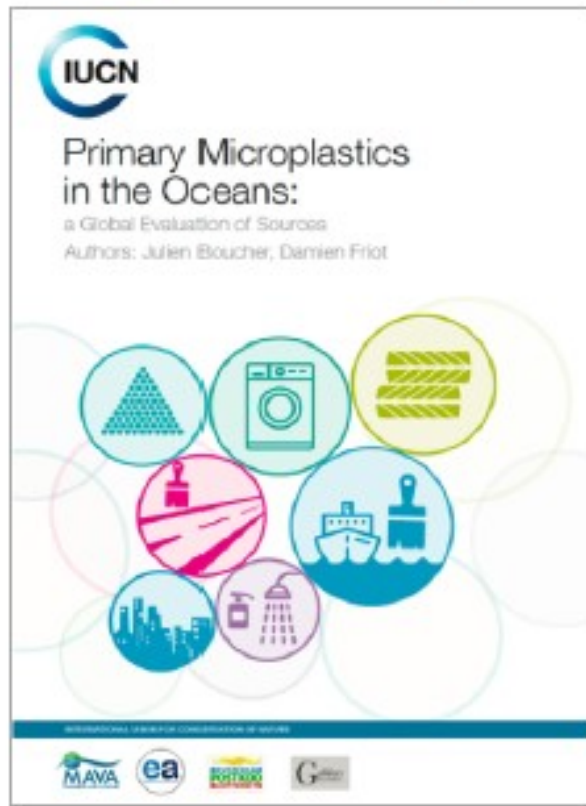
1.5 million tons/year

Plastic from Wastes

Primary Microplastics



Jambeck & al. 2015



Boucher and Friot 2017

How much is there

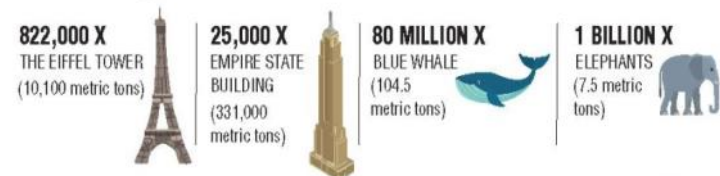
- To date: ≈ 8.3 billion tons
 - 50% of this is single use
- In the ocean: ≈ 8 million tons/year
 - Equivalent of 1 garbage truck released every minute



A clearer picture of plastics

Humans have created about 8.3 billion metric tons of plastics to date, outgrowing all man-made materials other than steel and cement.

How heavy is 8.3 billion metric tons?



The rapid rise of plastics

A world without plastics seems unimaginable today, yet their large-scale production and use only dates back to around 1950.

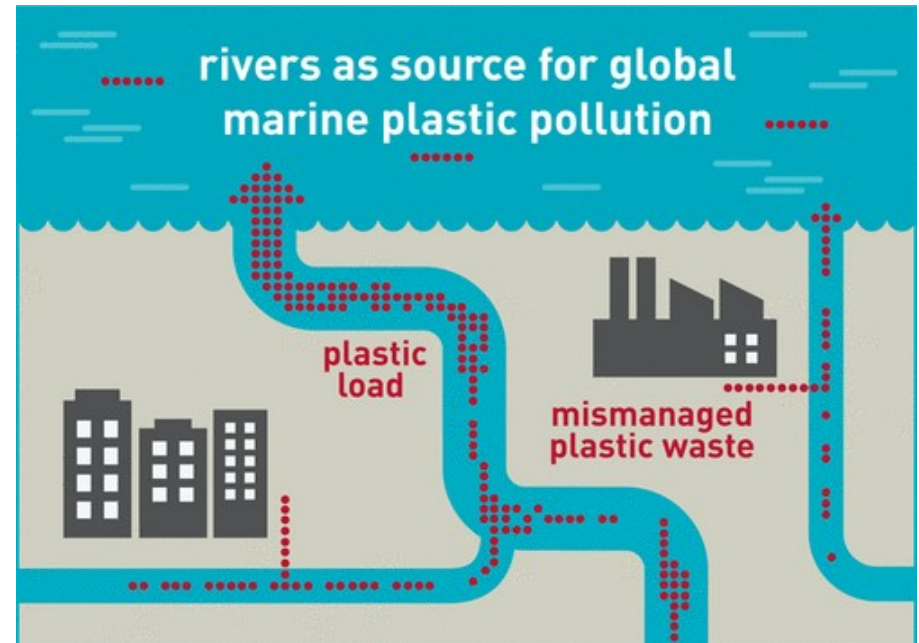
GLOBAL PLASTIC PRODUCTION ESTIMATES



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Where does it come from?

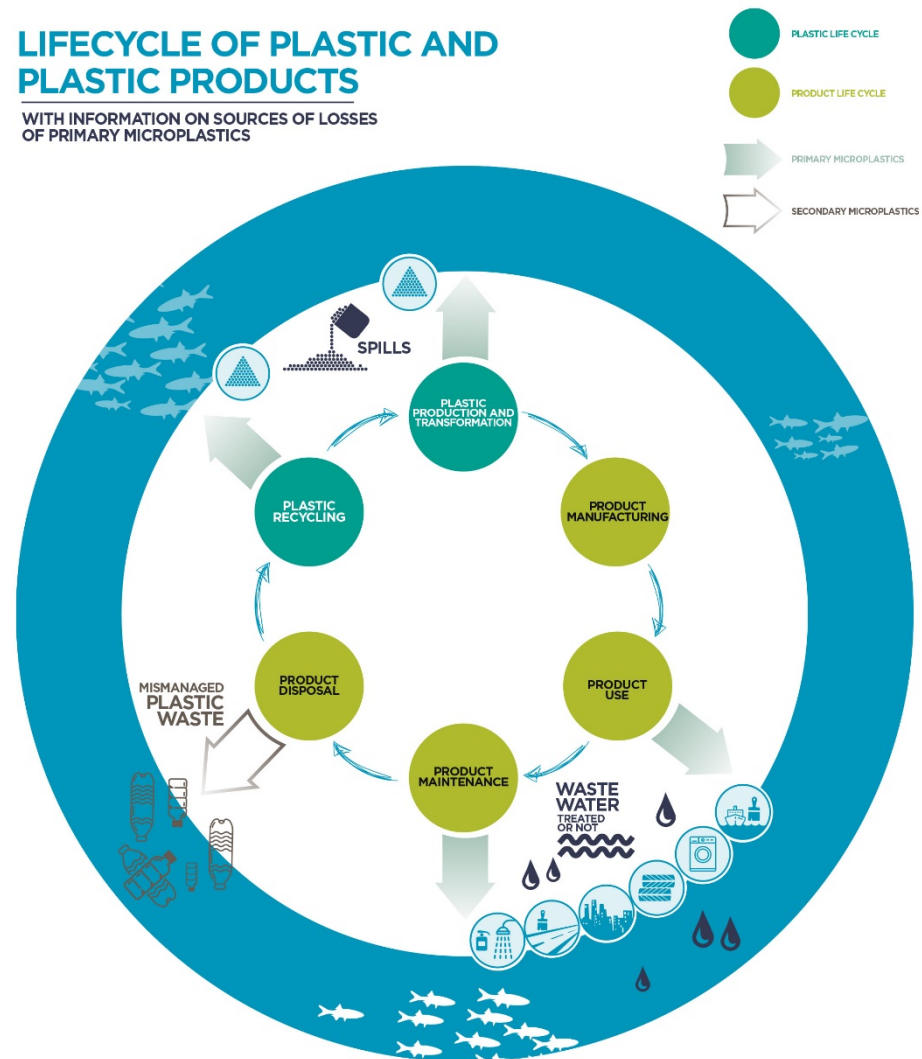
- Land sources via rivers
- Ocean sources (fishing & shipping industries)



Lifecycle

LIFECYCLE OF PLASTIC AND PLASTIC PRODUCTS

WITH INFORMATION ON SOURCES OF LOSSES OF PRIMARY MICROPLASTICS



IUCN'S APPROACH



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IUCN's Approach

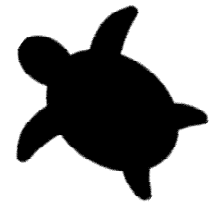
- G7 Ocean Plastics Charter and the United Nations Environment Assembly resolutions on marine litter and microplastics
- Gap analysis of national governance strategies and approaches
- UN Environment's expert group on marine litter and microplastics
- National plastic footprint methodologies.



IUCN's Approach

National plastic footprint methodologies

- Analyse scale & impact of plastic pollution at the national level.
- Open Science principles & citizen science
- 13 countries
- Results to drive action by governments, businesses & civil society
 - Reduce plastic pollution
 - Prevent further harm to biodiversity, human wellbeing & economic growth.



IUCN's Approach

Regional level

- IUCN works closely with the Nairobi Convention to strengthen science-to-policy frameworks
- Engaged in the establishment of regional Technical Working Group on marine litter and microplastics.



THE MARPLASTICS INITIATIVE



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MARPLASTICCS

- 3-year initiative
 - 2017-2020
- 5 countries
 - Southeast Africa
 - Asia



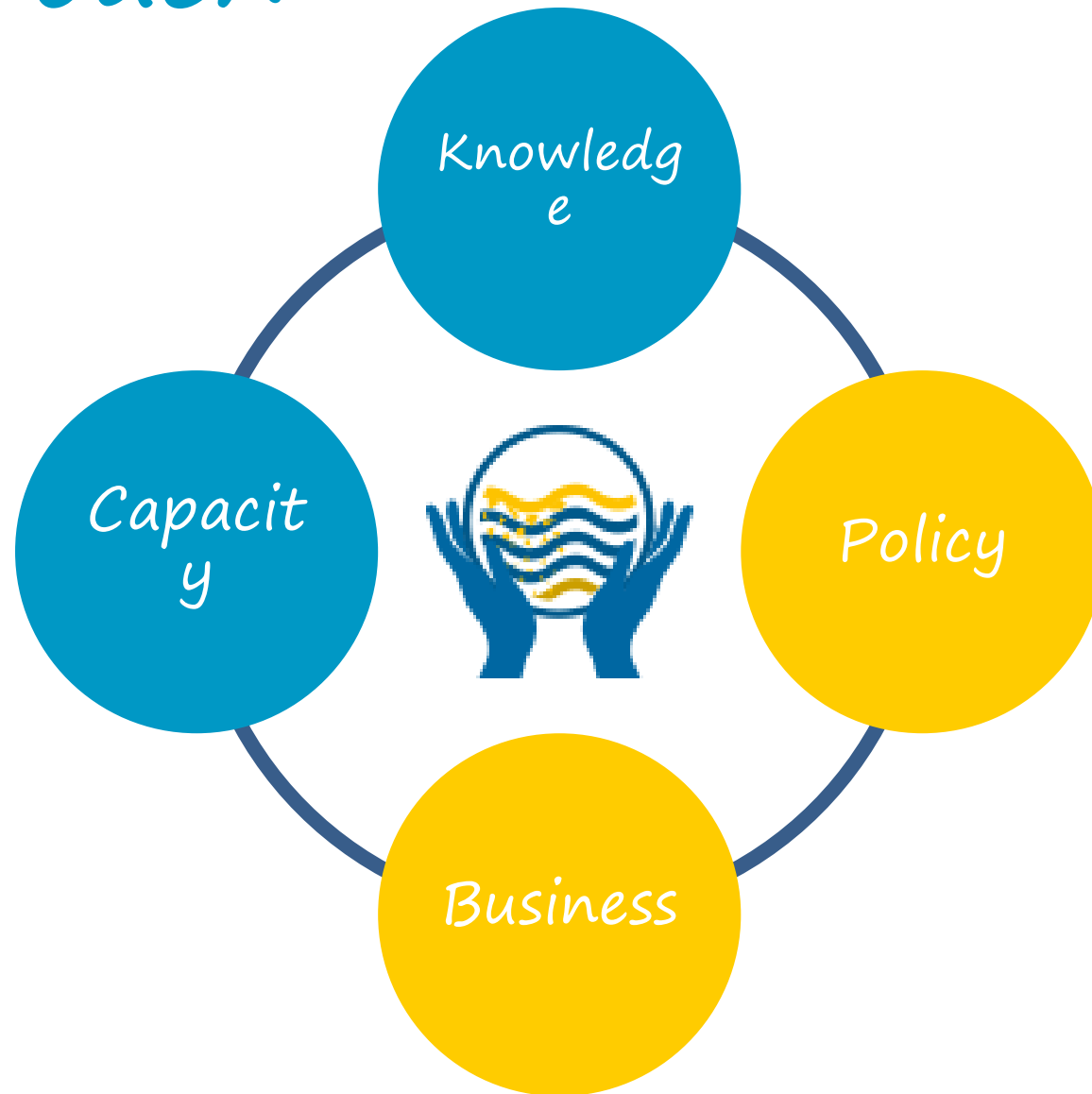
Goals

To contain and reduce plastic pollution

- Equip *governments, industry, and society* with knowledge, policy options and action plans
- Work with *governments and regional bodies* to promote, enact, and enforce legislation and other effective measures



Approach



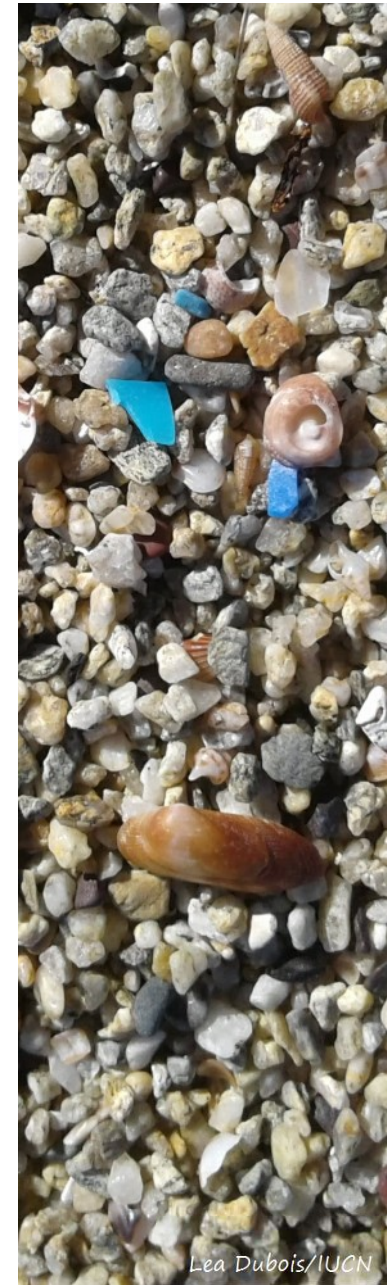
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Knowledge

Better understand the state and impact of plastic pollution

- ✓ A replicable methodology assessing plastic waste source to stream
- Regional & national summary reports



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Support national action to control plastic pollution

- ✓ Identify & map key actors and their roles
- ✓ Citizen science initiatives
- Pilot PPP projects: Cleanup & restoration



Policy

Support national & regional policy frameworks and legislative reform processes

- ✓ Analyse national policy and regulatory frameworks
- Support the development of national action plans & circular economy roadmap



Succo/Pixabay

Business

Engage and mobilise business actors

- ✓ Identify practical and effective solutions
- ✓ A plastic footprint calculator and mismanagement of plastic waste index
- ✓ Economic and financial analysis of control and repurposing options
- Support the development of national green economy roadmaps linked to national Action Plans





NEXT STEPS



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Next steps

- To achieve G7 targets, PPPs & other approaches require transparent and science-based evidence
- IUCN will support countries, regions, & international organisations
 - Work closely with governments & businesses to develop action plans



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Sirot National Park, Phuket, Thailand. Credit: IUCN/Lea Dubois, 2017

Please
contact
us!
Thank
you.



@MARPLASTICCS



www.marplasticcs.org



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