

# Global framework to address marine debris, plastic and microplastics

SUMMARY OF THE CURRENT FRAMEWORK AND OPTIONS TO MOVE FORWARD

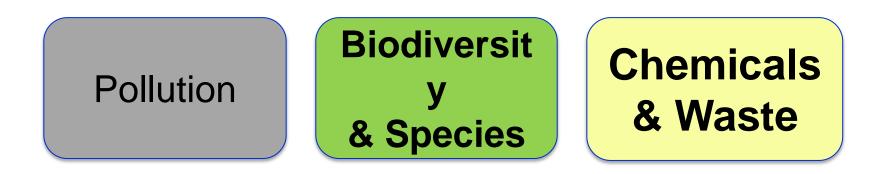


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Dr Karen Raubenheimer | ANCORS, University of Wollongong, Australia Cleaner Pacific Roundtable, 20 August 2018

# Relevant global binding agreements

**UN Law of the Sea Convention** 



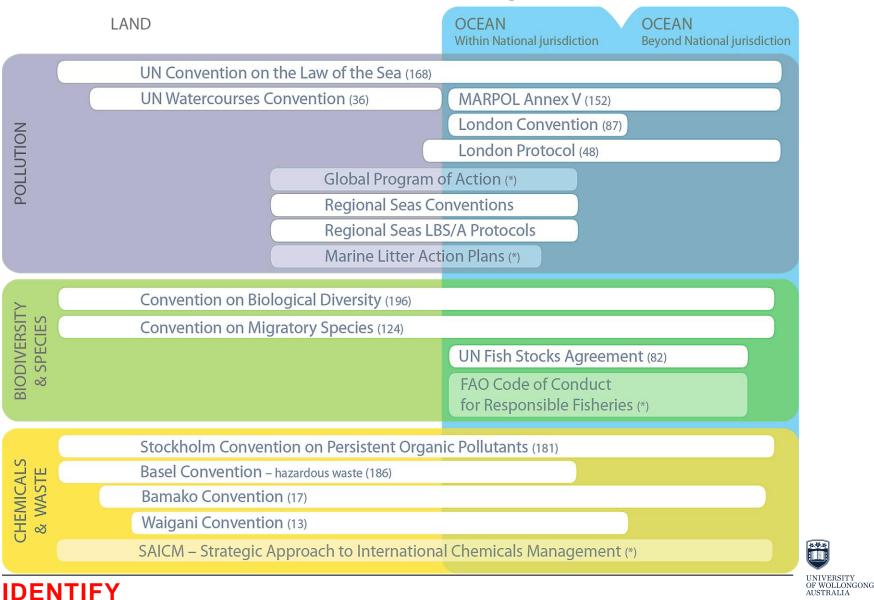
# 18 international instruments 36 regional instruments

Combating marine plastic litter and microplastics: An assessment of the effectiveness of relevant international, regional and subregional governance strategies and approaches **(UNEP/EA.3/INF/5)** 

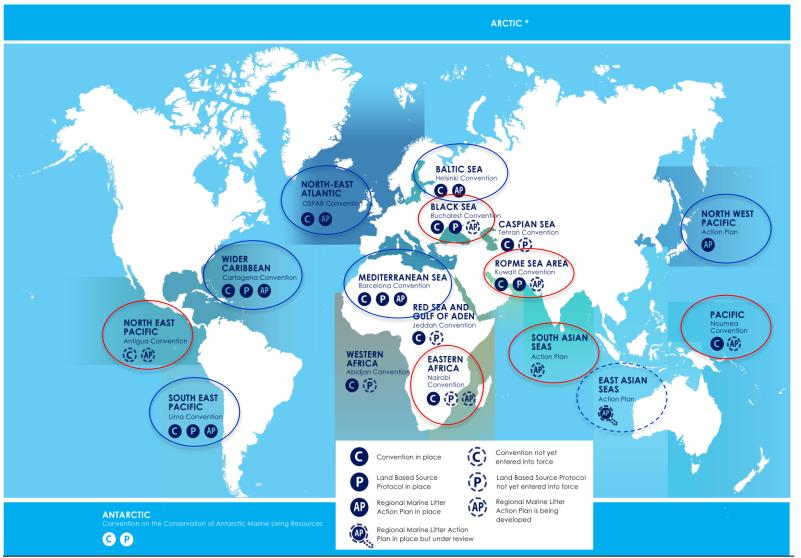




# Overview: international & regional instruments



# Regional instruments – current status



IDENTIFY



# Gaps in the current framework

#### **INTERNATIONAL** Scope of application

- UNCLOS addresses activities resulting directly/indirectly to plastics entering the marine environment
- From land, sea and air

#### Definitions

 Most will cover plastic pollution, but limited within full lifecycle

#### HUMAN HEALTH, MICROPLASTICS, CHEMICALS

#### **REGIONAL SEAS** Geographic gaps

 14/18 have adopted a legal framework

(one not in force)

- 9 of these have adopted LBS/A Protocols (four not in force)
- Not all States are party to the relevant convention or protocol

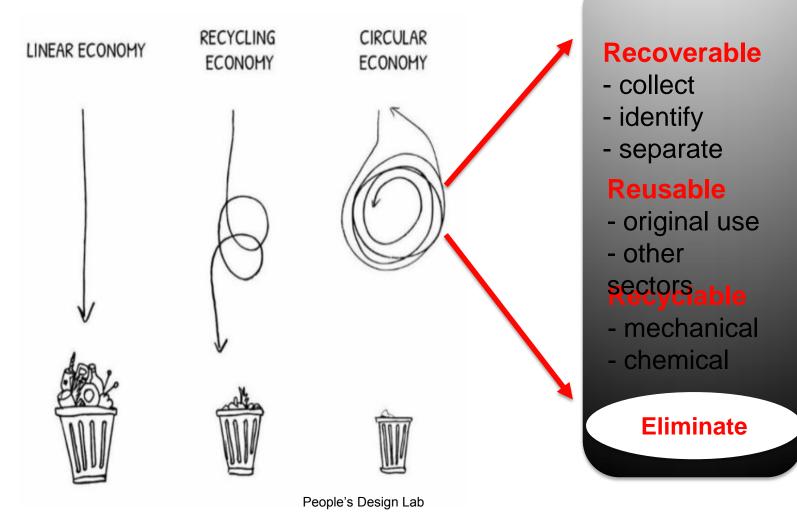
#### Limitations in mandate

- Protection of human bealth (chemicals)
- Upstream activities



# What is the end goal? TOWARDS A CIRCULAR ECONOMY

**INNOVATE** 



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# The reality? BARRIERS TO THE CIRCULAR ECONOMY

# Only 70% of the U.S. waste stream can be recycled or composted\*



# EU plastics recycling strategy

- 2030 all plastics packaging to be recyclable
- 2030 55 % all plastics waste generated in Europe to be recycled



#### **INNOVATE**

# Tackling the issue

#### 1) Unnecessary/problematic applications and materials

- Aim to reduce, eliminate
- Alternate materials

#### 2) Necessary short- and medium-term applications

• Aim to manage

#### 3) Long-term applications

- May have legacy issues
- How to manage in waste stream

#### 4) Non-recyclable applications and materials

- Mechanical recycling into houses, roads, etc.
- Waste-to-Energy (with care)

#### 5) Microplastics

- Aim to reduce, eliminate primary
- Prevent secondary thru design, regulation, lifecycle assessment





#### INNOVATE

## EPR for packaging in Norway New amendment to waste regulation



- Must join approved compliance scheme (traditional)
  - If supply market with min. 1,000kg packaging type / year
  - Finance the collection, sorting, recycling & other processing of waste packaging

## - May only place packaging on Norwegian market if:

- Complies with Annex I (Design, reuse, recycling requirements)
- % can be recycled into marketable products in compliance with community standards

### - Must prevent waste & report

- Report % change in packaging onto market & decrease in waste generated from previous years







# Creating end-markets SUPPORTING THE CIRCULAR ECONOMY

# **Creating supply**

## Landfill taxes/bans

- increase diversion
- international trade

### **Creating demand**

#### **Procurement policies**

- % recycled content
- Government

#### **Licence fees**

- not recyclable
- no recycled content

## **Recycling targets**

- incentivise collection
- investment



#### IMPLEMENT

# Making it a reality POSSIBILITIES AS A REGION

### Harmonised national measures

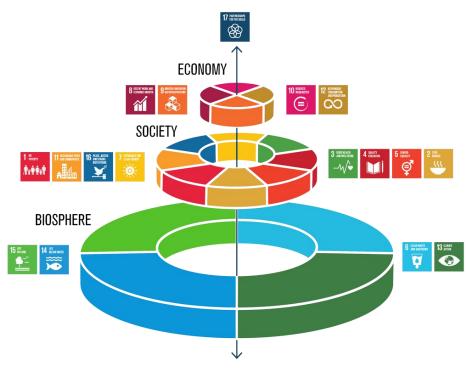
- Regulate manufacture, import & sale of single use plastic products
  - Bans, recycled content, recyclability
  - Prohibit microplastics in personal care products
- Collection
  - Container deposit schemes
  - Reverse logistics
- Raising funds
  - Non-Pacific visitor environmental levy
  - Environment fund based on levies/fees/charges:
    - Visitor levy, license fees for plastics manufacturers, importers, retailers
    - e.g. Taiwan EPA fund <u>http://recycle.epa.gov.tw/</u>





#### IMPLEMENT

# Broadening the scope NOT JUST MARINE ECOSYSTEMS



#### SDGS – beyond 14.1

- 2.1 : access to safe food
- 3.9 : hazardous chemicals
- 6.3 : water quality, wastewater (MP)
- 8.4 : consumption & production
- 11.6 : air quality, MSW
- 12.4 : lifecycle of chemicals, all waste
- 12.5 : reduce waste generation
- 14.1 : marine pollution
- 14.2 : marine restoration
- 15.5 : biodiversity
- 17.6 : cooperation, knowledge sharing
- 17.9 : capacity building
- 17.16: support SDG achievement



