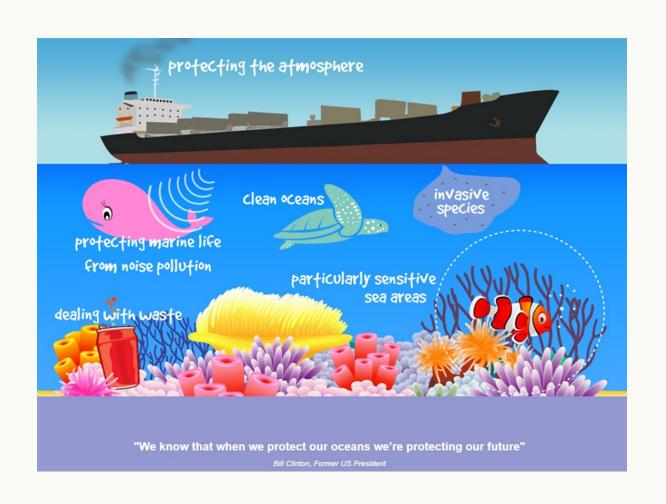




### Talk outline



- IMO
- London Convention and Protocol
- Disposal of wastes at sea
- Space launch debris
- Marine environmental effects
- Regulatory gap
- Way forward



### The International Maritime Organization



UN Specialized Agency mandated to set a **global regulatory framework** to ensure safe, secure and efficient shipping on cleaner oceans



More than 50 international instruments regulating safety and environmental performance adopted



**176** Member States & 3 associate members

143 observer organizations (IGOs and NGOs)



IMO regulates the over 50,000 merchant ships trading worldwide

"Safe, secure and efficient shipping on cleaner oceans"



#### **London Convention and London Protocol**

Global treaties that regulate the prevention of pollution from

dumping of wastes at sea

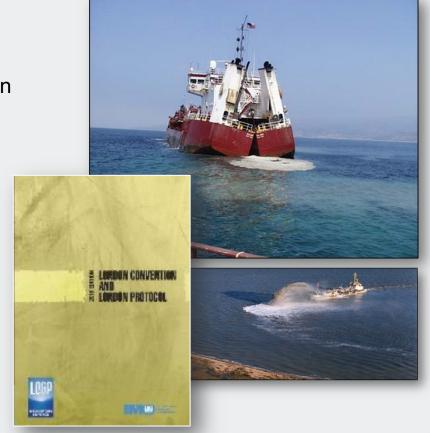
#### The London Convention 1972 (LC) - Permissive

- One of the first global conventions to protect the ocean from human activities
- In force since 1975
- Currently 87 Contracting Parties

#### The London Protocol 1996 (LP) - Precautionary

- More modern and comprehensive global treaty
- Will eventually replace LC
- In force since 2006
- Currently 54 Contracting Parties

Total: 101 LC/LP Parties



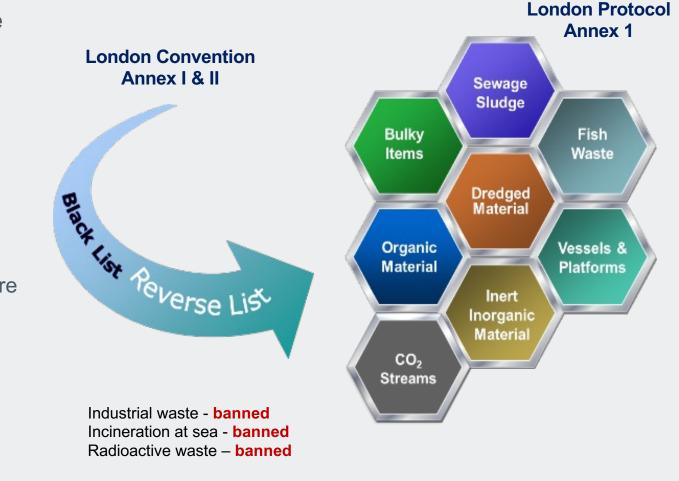
#### What is dumping & which wastes can may be considered for dumping

Dumping is "any deliberate disposal into the sea of wastes or other matter from vessels, aircraft, platforms or other man-made structures."

- Includes storage of wastes in the seabed.
- Includes abandonment or toppling at a site.

#### Dumping is <u>not</u>:

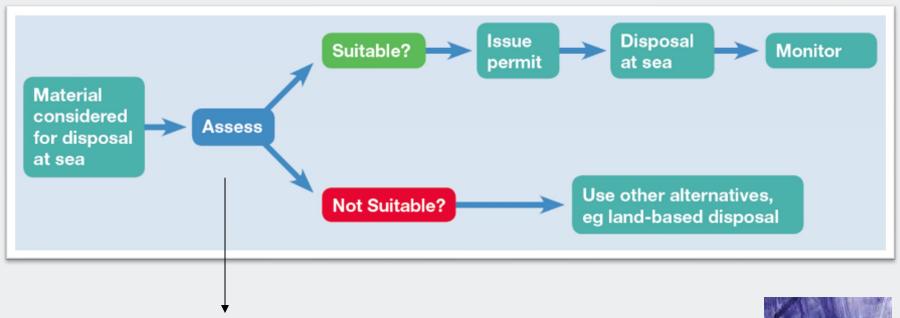
- Operational discharges from vessels or offshore installations.
- Pipeline discharges from coasts or cities.
- Wastes discharged into rivers and out to sea.
- Placement of matter for a purpose other than disposal.



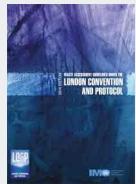
Sewage sludge – removed from Annex 1 as of 15 January 2023



#### How does it work at the national level?



To support this assessment, a series of waste assessment guidelines have been developed, both generic guidance and specific guidance for each type of waste









# Marine environmental effects of jettisoned waste from commercial spaceflight activities

- In 2018 concerns raised by Parties
- Potential impacts on the marine environment arising from such debris:
  - Physical disturbance of seabed/org.
  - Input of toxic substances
  - Input of litter
  - Input of anthropogenic sound
  - Collision risk
- Therefore an intersessional Correspondence Group on the issue was established







# Marine environmental effects of jettisoned waste from commercial spaceflight activities

- LC/LP Secretariat/UNOOSA Secretariat
- Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE III), held in Vienna in 1999
  - 33 recommendations were adopted (A/CONF.184/6) including recommendation 1.a, which states:

"Protecting the Earth's environment and managing its resources: action should be taken:

(v) To ensure, to the extent possible, that all space activities, in particular those which may have harmful effects on the local and global environment, are carried out in a manner that limits such effects and to take appropriate measures to achieve that objective."





## **Way forward**

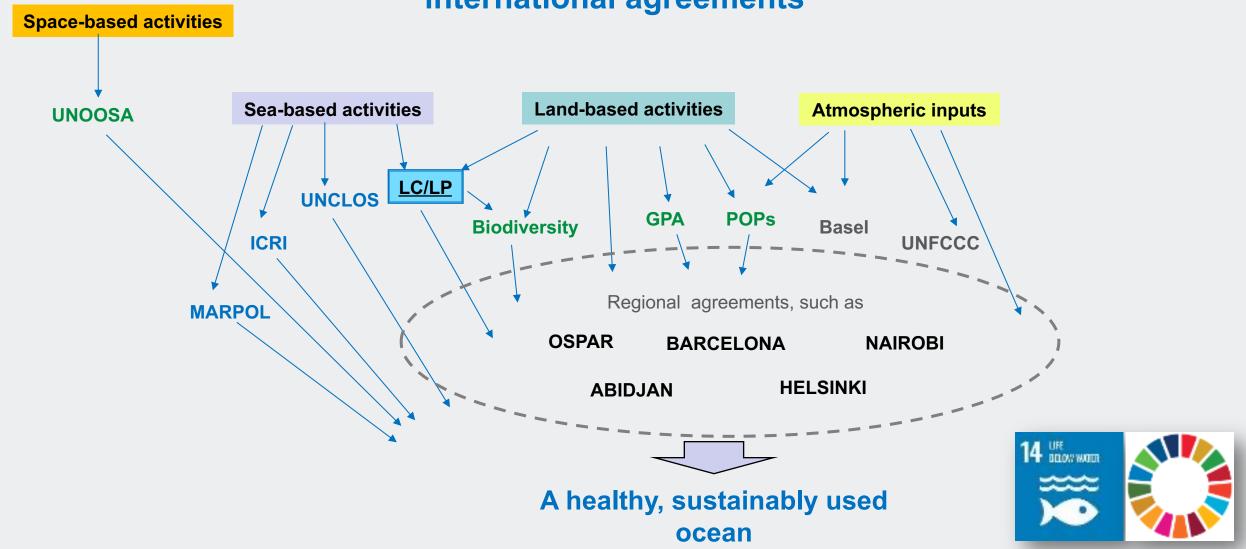
- Regulatory gap identified
- Lack of information therefore difficult to provide a more comprehensive overview of the nature and scale of the deposition of space launch vehicle components into the marine environment, and therefore its likely cumulative impacts
- LC/LP Parties invited to report on such activities and the assessment of their impacts on the marine environment
- Engagement with UNOOSA, COPUOS and its Member States
- Ensure any impacts from these activities can be considered and reduced – joint guidelines?







# Relationship between global and regional international agreements





# Thank you for listening

### www.imo.org



email: olcp@imo.org

