



**MTCC AFRICA**  
Maritime Technology Cooperation Centre

## CAPACITY BUILDING FOR CLIMATE CHANGE MITIGATION IN THE MARITIME SHIPPING INDUSTRY

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**MTCC AFRICA HEAD**



This project is financed by the  
European Union  
and implemented by the  
International Maritime Organization

# KEY TO SUSTAINABILITY: Start with the End in Mind

Source: <https://www.docksthefuture.eu/docks-the-future-dtf-defining-the-concept-of-the-sustainable-future-ports/>

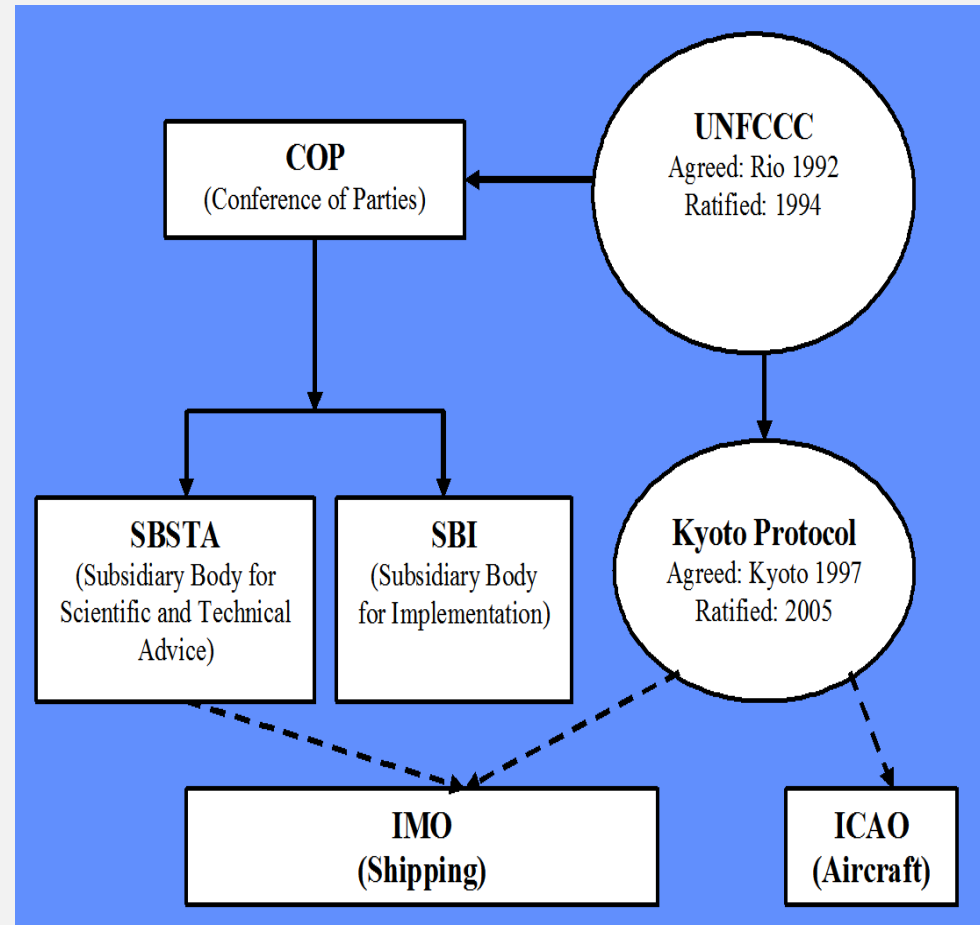


# Organizations and Instruments

- United Nations Environment (former **UNEP**)
- Intergovernmental Panel on Climate Change (**IPCC**)
- United Nations Framework Convention on Climate Change (**UNFCCC**) (1992)
- **Kyoto Protocol** (1997) => **Paris Agreement** (2015)
- Vienna Convention & **Montreal Protocol** on Ozone-Depleting Substances (1989)
- **IMO** for international shipping (Chapter 4 of MARPOL Annex VI, 2013) (**Main area of Focus**)

# UNFCCC AND IMO: WHY IMO REQUIRES ENERGY EFFICIENCY REGULATION

Source: UNFCCC, IMO, Google



# UNFCCC AND IMO: WHY IMO REQUIRES ENERGY EFFICIENCY REGULATION

## UNITED NATIONS

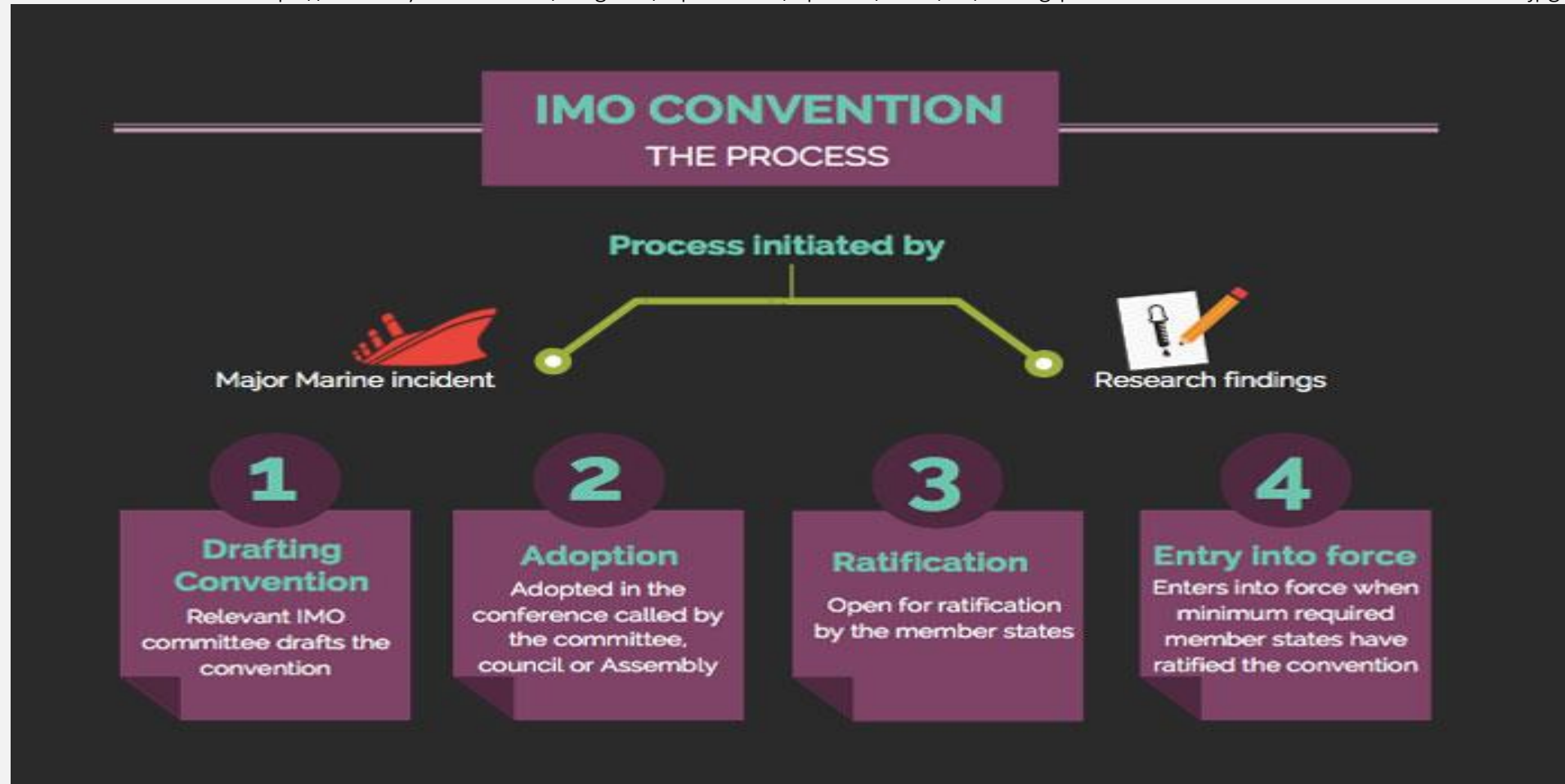
- United Nations has a number of specialized agencies e.g.

*The International Maritime Organization (IMO)*

- ❖ to develop and maintain a comprehensive regulatory framework for **shipping**,
- ❖ **safety**,
- ❖ **environmental** concerns,
- ❖ technical co-operation,
- ❖ **maritime security** and the
- ❖ **efficiency** of shipping.

# THE INTERNATIONAL MARITIME ORGANISATION

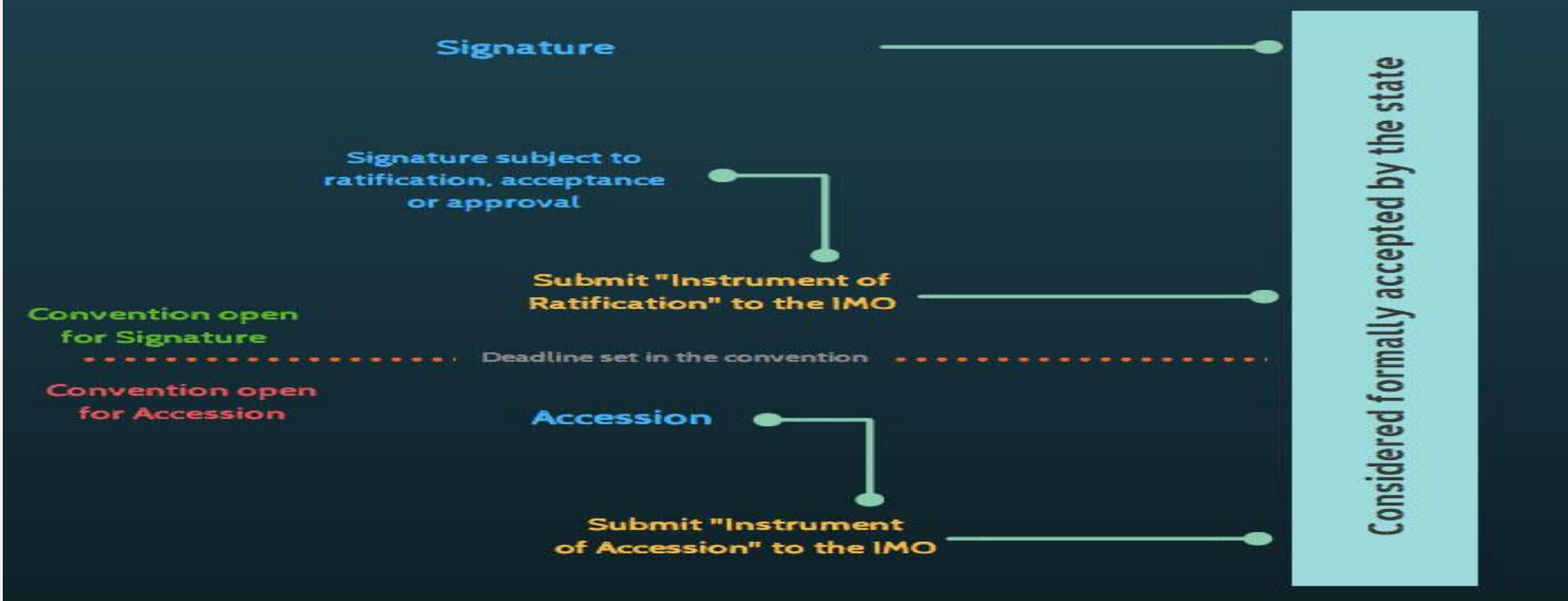
Source: <https://www.myseatime.com/blogadm/wp-content/uploads/2017/08/Voting-process-for-amendment-to-IMO-convention.jpg>



# THE INTERNATIONAL MARITIME ORGANISATION

Source: <https://www.myseatime.com/blogadm/wp-content/uploads/2017/08/Voting-process-for-amendment-to-IMO-convention.jpg>

## How a state can ratify (accept) a convention



# INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS

MARPOL Convention entered into force on 2 October 1983. (Kenya)

Has SIX Annexes

- Annex I Oil
- Annex II Noxious Liquid Substances carried in Bulk
- Annex III Harmful Substances carried in Packaged Form
- Annex IV Sewage
- Annex V Garbage
- **Annex VI Air Pollution & Energy Efficiency**

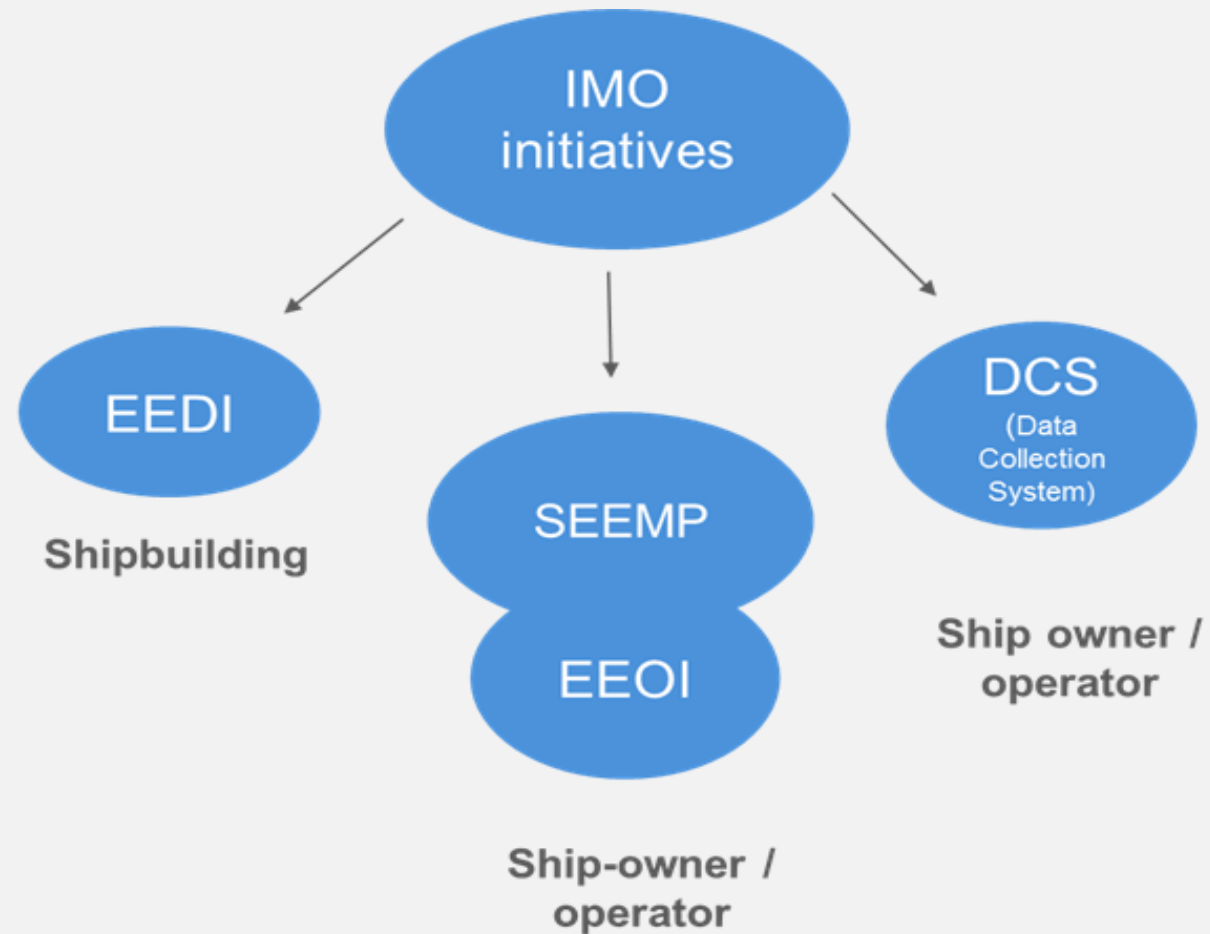
As of 1 January 2017 States Parties comprising 99 % of world merchant tonnage. (the combined merchant fleets of which constitute approximately 99.14 % of the gross tonnage of the world's merchant fleet).

<http://www.imo.org/en/About/Conventions/StatusOfConventions/Documents/Status%20-%202017.docx.pdf>



# Implementation of Annex VI

Source: IMO Digital



# MARPOL Annex VI

## Ratification

1. Benin
  2. Congo
  3. Ghana
  4. Kenya
  5. Liberia
  6. Nigeria
  7. Sierra Leone
  8. South Africa
  9. Tunisia
  10. Madagascar
  11. Somalia
  12. Namibia
- NB. This list is not conclusive



# UN SDG

source IMO Digital

