



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/>

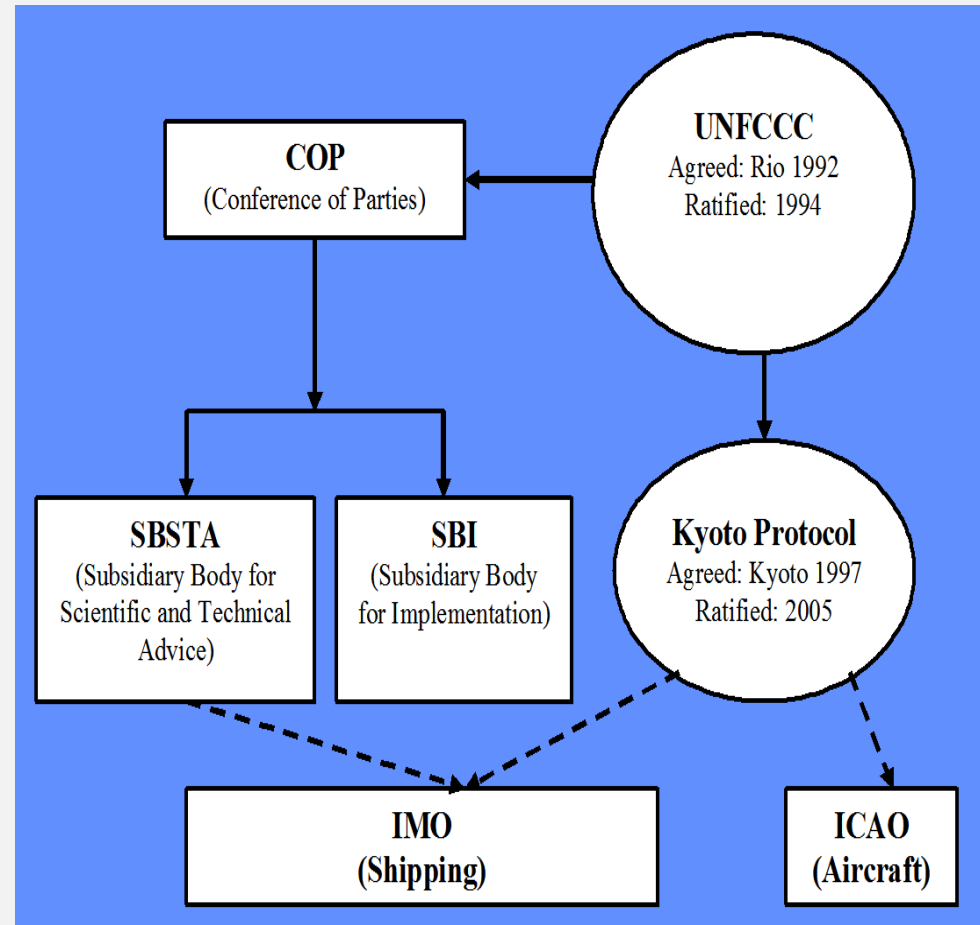


Organizations and Instruments

- 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

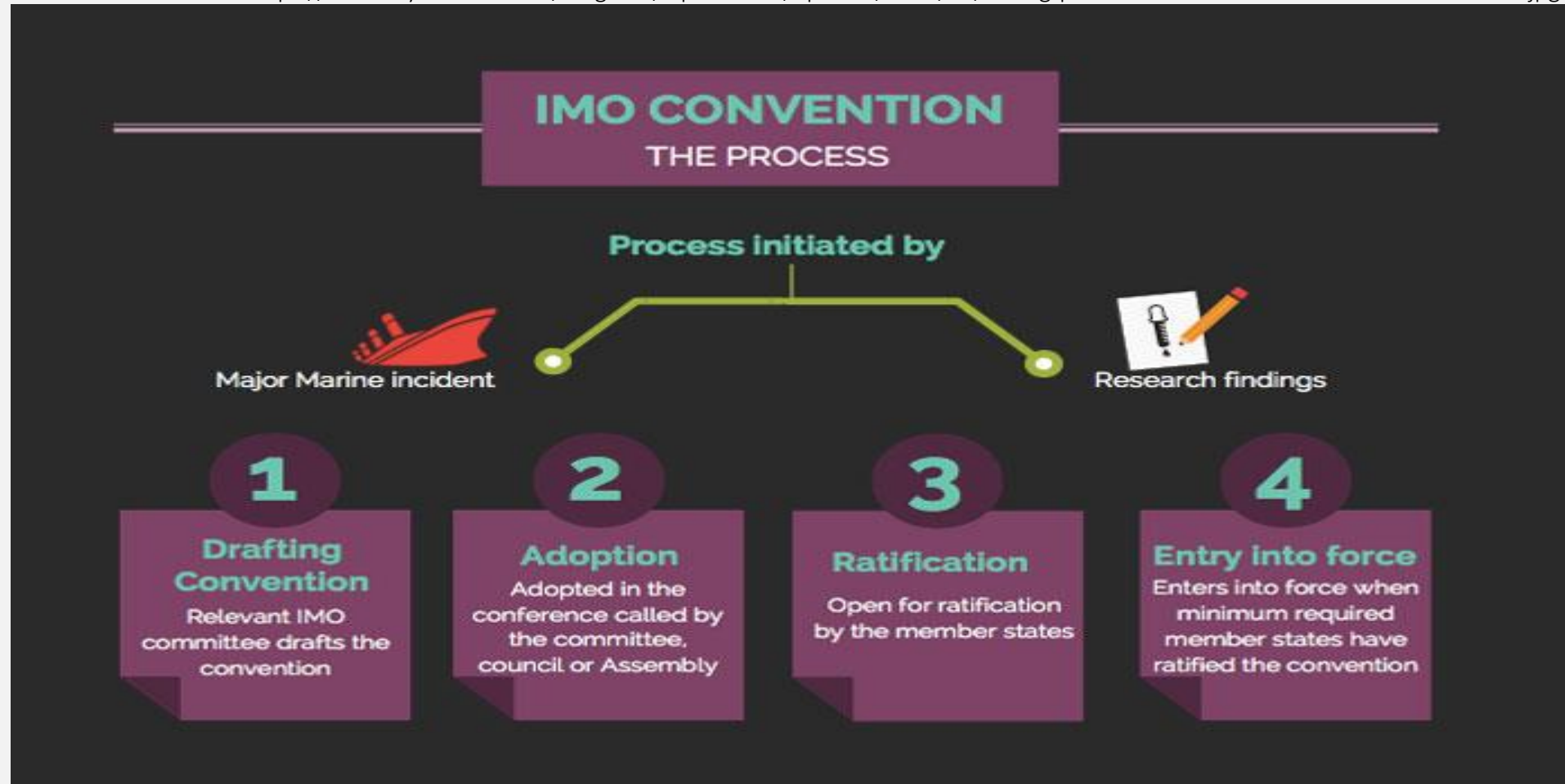
- United Nations has a number of specialized agencies e.g.

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

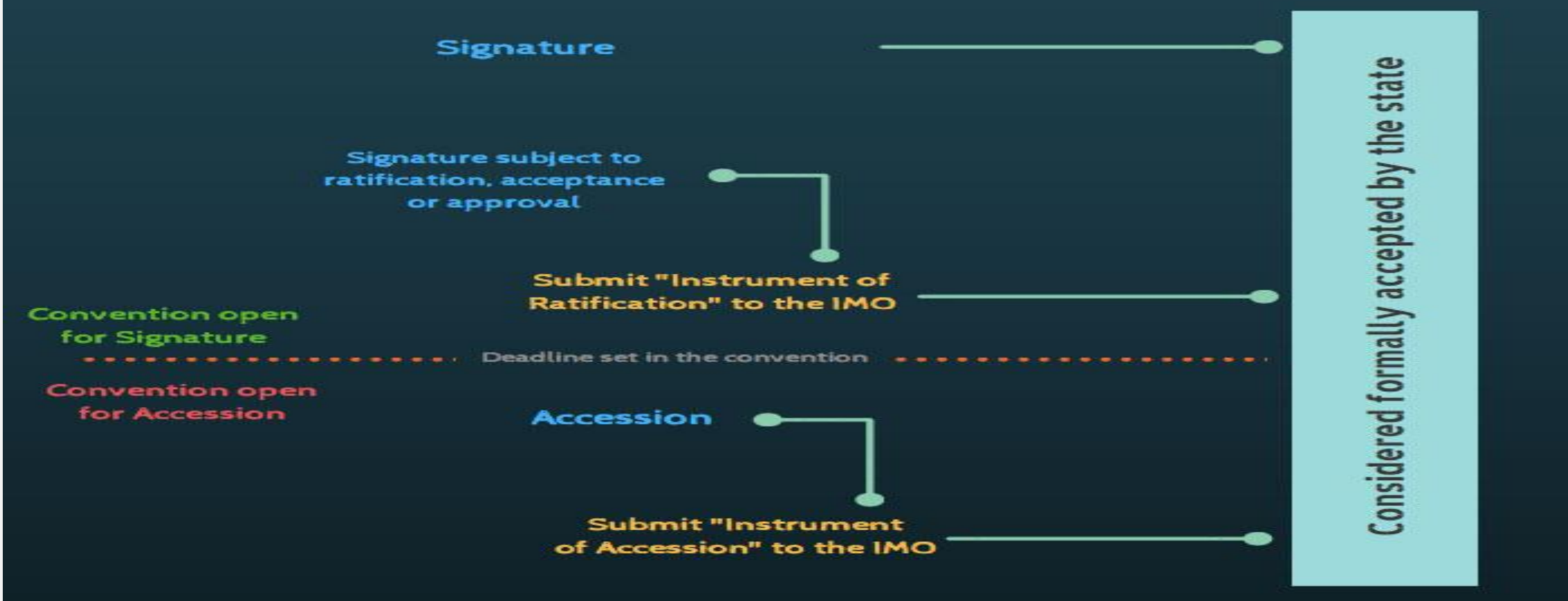
Source: <https://www.myseatime.com/blogadm/wp-content/uploads/2017/08/Voting-process-for-amendment-to-IMO-convention.jpg>



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

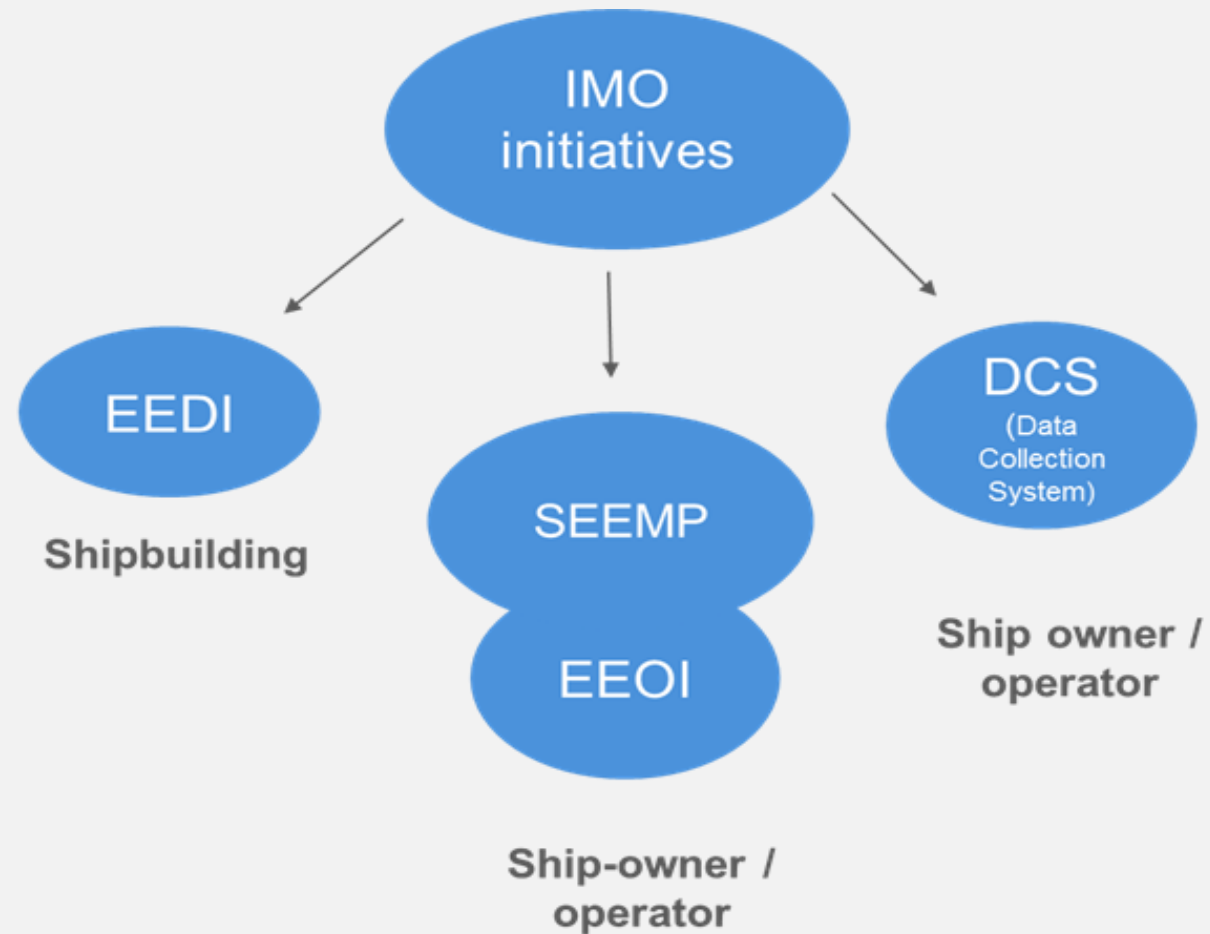
- Annex I Oil
- Annex II Noxious Liquid Substances carried in Bulk
- Annex III Harmful Substances carried in Packaged Form
- Annex IV Sewage
- Annex V Garbage
- **Annex VI Air Pollution & Energy Efficiency**

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

