

# Maritime Transport & Marine Environment Protection

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# Transport

“Blood circulation of economy”  
Pillar of sustainable development



# Transport Policy

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Economical  
Environmental  
Social dimension



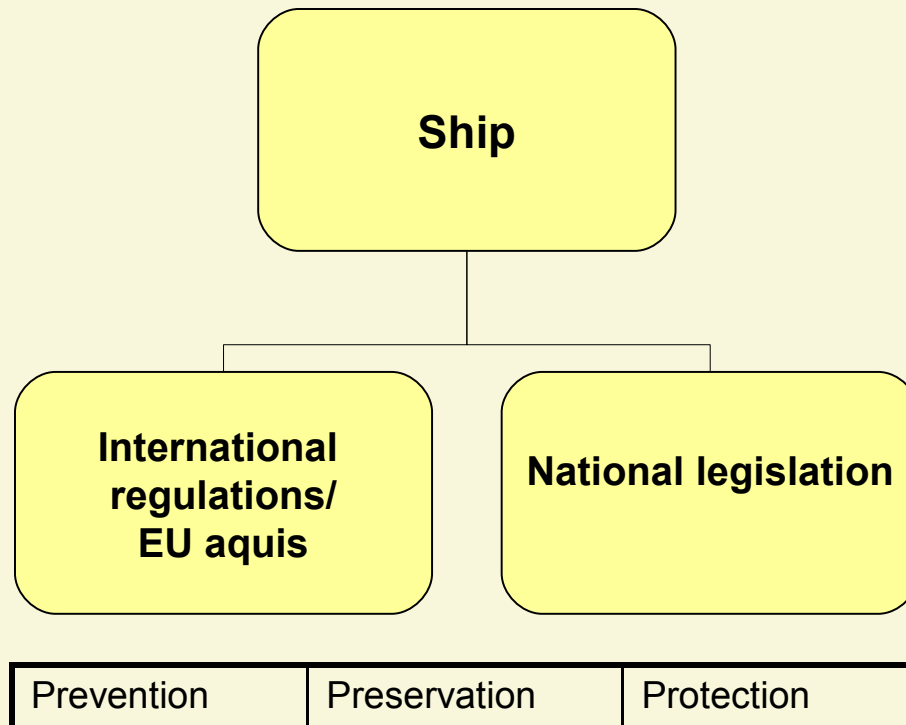
# International Maritime Transport

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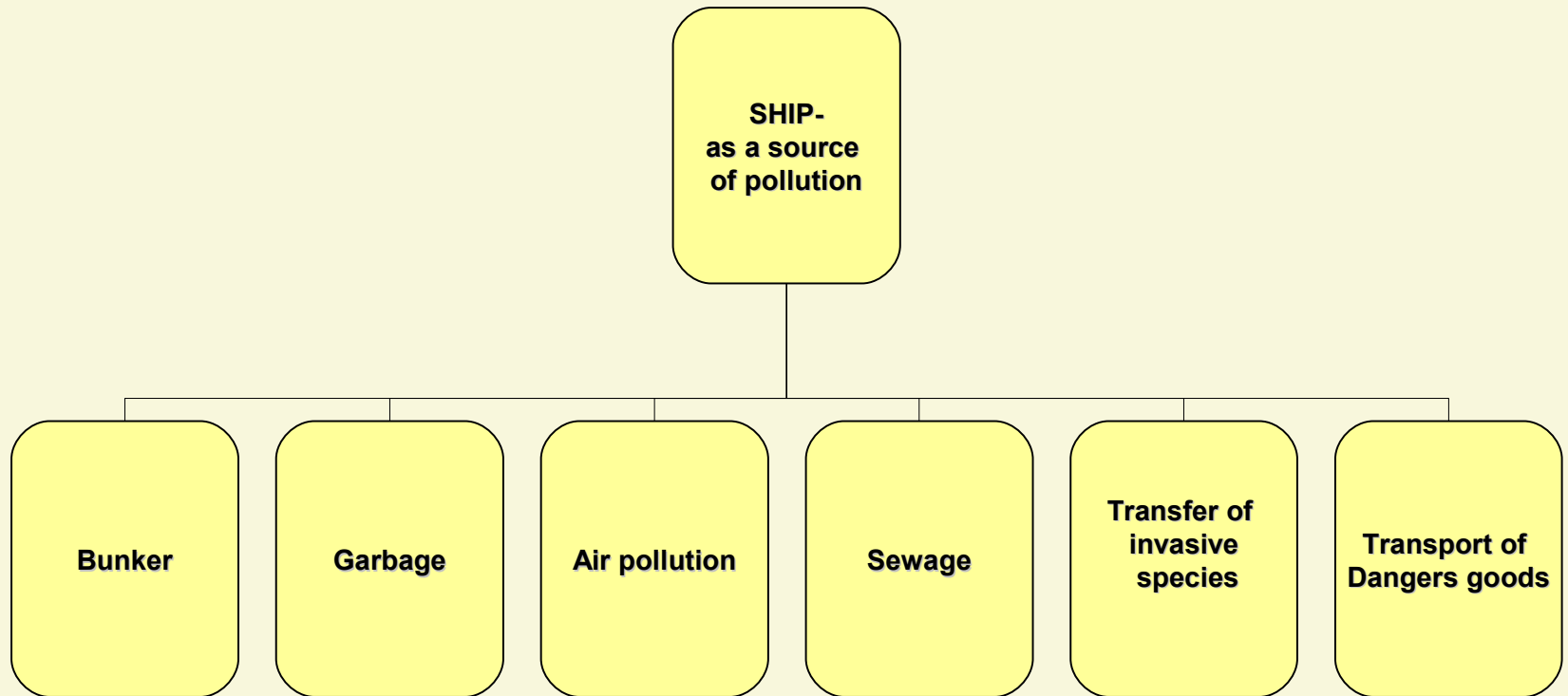
- More than 90% of world trade
- Safe and Environmentally friendly
- Challenges



# ENVIRONMENT PROTECTION



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## -IMO

- ❑ **MARPOL Convention, 73/78** (International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978)
- ❑ **BARCELONA Convention of 1976**, amended in 1995 (Convention for the Protection Of The Mediterranean Sea Against Pollution)
- ❑ **CLC Convention, 1992**, International Convention on Civil Liability for Oil Pollution Damage
- ❑ **FUND Convention, 1992**, International Convention on the Establishment of an International Fund for Compensation for Oil Pollution Damage
- ❑ **BUNKER Convention, 2001**, International Convention on Civil Liability for Bunker Oil Pollution Damage
- ❑ **NAIROBI 2007**, International Convention on the Removal of Wrecks
- ❑ **OPRC Convention, 1990**, International Convention on Oil Pollution Preparedness, Response and Co-operation
- ❑ **AFS Convention, 2001**, International Convention on the Control of Harmful Anti-fouling Systems on Ships
- ❑ **BWM Convention**, International Convention for the control and Management of ship's ballast water and sediments, 2004

# ENVIRONMENT PROTECTION -EU

## Directives and Regulations

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- **DIRECTIVE 2002/59- places of refuge**
- **TANKERS (Regulation 457/2007 as ammended by Directive 417/2002)**
- **AFS (Regulation 536/2008)**
- **PORT RECEPTION FACILITY (Directive 2000/59/EC as ammended by Directive 2007/71/EC)**
- **Unloading / loading of bulk and other cargo (Directive 2001/96/EC)**
- **Marine Strategy Framework Directive 2008/56/EC**

# ENVIRONMENT PROTECTION – regional cooperation

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- **Convention for the Protection of the Mediterranean Sea from Pollution (Barcelona Convention).**
- **Mediterranean Action Plan 1975, revised 1995 through the Action Plan for the Protection of the Marine Environment and the Sustainable Development of the Coastal Areas of the Mediterranean**
- **Regional centers: REMPEC**

## **Other forms of cooperation:**

- **Commission for Protection of the Waters of the Adriatic Sea and Coastal Areas from Pollution**
- **Adriatic Ionian initiative**

# ENVIRONMENT PROTECTION – National regulations

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- ❑ **Ship standards (flag and port entry)**
- ❑ **Port Standards**
  
- ❑ **Traffic measures and control (SRS, TTS, VTMIS)**



# NEW STANDARDS

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- **AIR POLLUTION**
- **Revised Annex VI. Adopted MEPC October 2008. In force 1 July 2010**
- **New global sulphur limits:**
  - - 3.50% 1 Jan 2012
  - - 0.50% 1 Jan 2020 (review 2018)
  
- **New SO<sub>x</sub>-ECA sulphur limits:**
  - - 1.00% 1 July 2010
  - - 0.10% 1 Jan 2015
  
- **New NO<sub>x</sub> standards for new engines**
  - - Tier II standard (-16-22%) 1 Jan 2011
  - - Tier III standard (-80%) 1 Jan 2016 in NO<sub>x</sub>-ECAs only

**DIRECTIVE 2005/33/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 6 July 2005 amending Directive 1999/32/EC as regards the sulphur content of marine fuels**

# Ballast water

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- **BW exchange standards- until 2016**
- **BW performance standard- from 2014- onwards**

# Ports

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- Reception facilities
- Bulk cargo handling
- Dangerous cargo handling
- Air pollution control
- Ballast water discharge/loading

COMPETITIVNES

# Challenges- opportunities

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## **IMO's Energy Efficiency Design Index (EEDI)**

- CO2 emissions – approximately 25-30% reductions by 2030

## **Green Port Concept**



# Conclusions

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- Multidisciplinary Approach
- Ecosystem Approach
- Regional Co-operation
- Strategy- Policy- Legislative Framework-  
Actions
- Capacity building



**Thank you for your attention...**



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