PSHEMS as a Framework for Implementing Gender Balance, Climate Mitigation and Environmental Marine Protection
Ports and harbor are an integral part of coastal communities of the East Asian region.

Port authorities and port operators face a number of challenges with respect to their role and impact in sustainable development of coastal areas through ICM programs.
Sustainable Develop. Strategy for the Seas of East-Asia (SDS-SEA) and challenges for ports

Challenges

SDS-SEA Challenges
➢ Reducing pollution from land- and sea-based activities
➢ Increasing preparedness and response to natural/man-made hazards
➢ Protecting and restoring health, resilient habitats and biodiversity
➢ Enhancing equitable, sustainable fisheries, food security, livelihoods

Responding to demands on:
➢ Innovative national ocean policy → blue economy
➢ Knowledge sharing, capacity development → global learning
➢ Investable projects → sustainable use of coastal/ocean services
➢ Gender balance

SDS-SEA Port Challenges
Ports are an integral part of coastal communities in the East Asia region. SDS-Sea and port operation of today`s address challenges
➢ Preventing accidents and enhancing preparedness to hazards
➢ Reducing/avoiding environmental impacts within/around the port
➢ Protecting the health and welfare of port workers and surrounding communities

Port Safety Health and Environmental Management System
Different prioritized demands of stakeholder, increase the pressure and complexity on port performance

- **Governments, local authorities, labour providers**
  - Country’s trade competitiveness, customs efficiency
  - Security for surrounding communities
  - High safety, health conditions for port workers

- **Port Operators**
  - Port performance, efficient processes and investment
  - Handling charges, revenue
  - Continued improvement

- **Logistician/Carriers**
  - Low operating costs
  - High class equipment
  - IT System for cargo owners
  - Comprehensive infrastructure

- **Shipping lines**
  - Short loading times
  - Guarantee for berths of bigger vessels, more cargo
  - Service quality, multimodality

- **Insurance, Banks, Police etc.**
  - Safety performance, civil and hazard protection
  - Compliance with internat. legal and standards

- **International Institutions**
  - UN Worldcontract, Rio+20: SDG, DP report
  - IMO regulation 14, VI Marpol – sulphur limits
  - Kyoto, Paris protocol – reduce emission
  - EU, Hawkama: Environm. review-/index, 2014/94 shoreside power
  - Environmental, Social and Gender Balance Safeguards

- **Governments, local authorities, labour providers**

- **Port Operators**

- **Logistician/Carriers**

- **Shipping lines**

- **Insurance, Banks, Police etc.**

- **International Institutions**
PEMSEA’s Response to the Challenge

- **Port Safety Health and Environmental Management Code (PSHEM Code)**
  - Document specifying the requirements for a PSHEMS

- **Port Safety, Health and Environmental Management System (PSHEMS)**
  - System implemented by Port Authorities/Operators to manage port processes and activities to address safety, health and environmental concerns (may be integrated with quality management system)

- **PSHEMS Recognition Scheme**
Port organizations towards PSHEM, Safety, Health, Environment; Quality Management Systems; ISO; and Social, Environmental and Gender Safeguards

PSHEM Code - Port Safety, Health and Environment Management Code

- EMS ISO 14001* port specialized
- Quality ISO 9001* port specialized
- Social, Health OHSAS 18001* port specialized

Port activities covered by PSHEM System

- **Port Top Management**
  - Business plans and resource control

- **Port Administration**
  - Immigration, health, custom, commercial documentation control
  - Control of all modes of vehicles in/out
  - Environmental control
  - Dangerous, hazardous cargo control
  - Safety, security within the port area
  - Environmental safeguards
  - Social and Gender safeguards

- **Port Operations**
  - Navigational aids for traffic, vessel
  - Facilitating arrival, departure and berth
  - Facilitating Supply chain logistics
  - Loading, discharging, storage and distribution of cargo, use of sheds
  - Allied: pilotage, tugging, mooring
The PSHEMS has been successfully implemented at:

- Port of Tanjung Pelepas, Malaysia;
- Bangkok Port, Thailand;
- Laem Chabang Port (in cooperation with 3 private terminal operators), Thailand;
- Port of Ilolo, Philippines;
- Port of Cagayan de Oro, Philippines;
- Port of Batangas, Philippines;
- Port of SOCSARGEN, Philippines;
• The PSHEMS is also being implemented at:
  – Sihanoukville Autonomous Port, Cambodia
  – Phnom Penh Autonomous Port, Cambodia
Impacts of PSHEMS Implementation

• Achieved Compliance to Regulatory Requirements
• Increase in Green Cover
• Reduction in CO2 Emission through Environmental Initiatives
• Spill Reduction and Spill Control
• Awards and Recognition
• Substantial Economic Gains
• Reduced occurrence of accidents and incidents
• Stronger implementation of gender program
Impacts of PSHEMS Implementation in Bangkok Port and Laem Chabang Port

- Institutionalization of Safety, Health and Environmental Organization within the port
- Achieved consistent 100% Compliance to Regulatory Requirements
- Increased in Green Cover inside the port.
- Reduction in CO2 Emission through Environmental Initiatives through mangrove planting and management
- Substantial Economic Gains through more efficient operations
- Reduced occurrence of accidents and incidents
- Spill Reduction and Spill Control
The PSHEM Code call for:

- Ensuring the wellbeing of employees and community;
- Sustainable development goal for SDG 5 and SDG 14;
- The PSHEMS can be used to develop environment, social and gender balance safeguards in the ports.
Lessons Learned

- Management commitment is key to the successful establishment and implementation of the PSHEMS;
- PSHEMS process of regular monitoring ensures control of processes and achieve compliance of regulations;
- Use of PSHEMS process Hazard Identification and OTPs in establishing engineering projects, safety controls and environmental, social and gender balance safeguards in ports;
- PSHEMS promotes active working groups composed of representatives from different departments of the port ensures ownership and implementation of safeguards for environment, social, safety and gender balance;
- Careful identification of projects for PSHEMS implementation bring substantial social environmental and economic benefits to the port, the port employees and the communities.