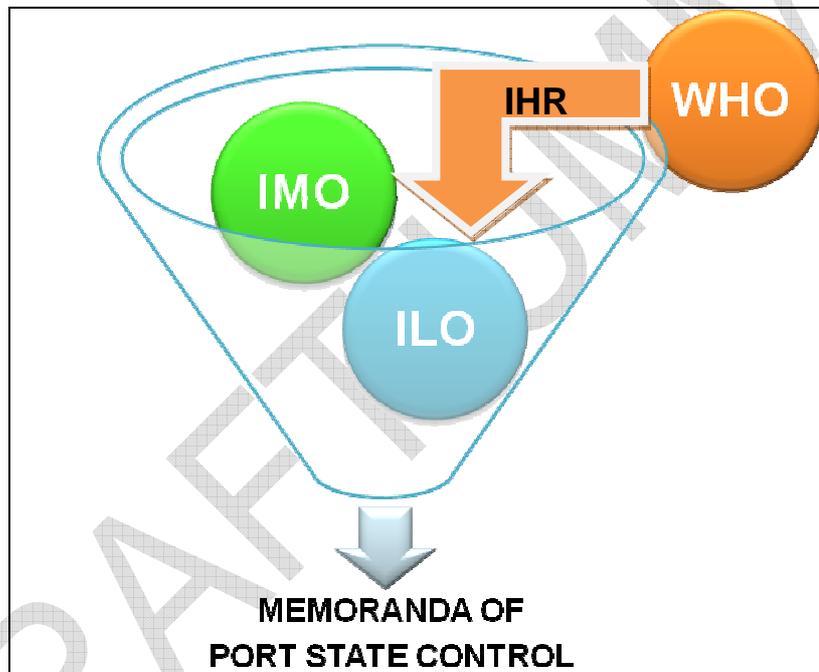


# Shipping Industry and Health Risks

## Framework, Methods, Challenges, Perspectives



**2009**

**Geneva – Switzerland**

### **Main acronyms**

IHR — International Health Regulations

MoU — Memorandum/a

PSC — Port State Control

SARS — Severe acute respiratory syndrome

TMAS — Tele-medical Maritime Advice Services

You will find the other acronyms classified by category in the appendices.

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## Background

The social, environmental and economic impacts of a sanitary crisis in a point of entry or at sea are immeasurable.

Indeed, world trade relies heavily on the Shipping Industry and over 90% of goods are consequently carried by sea.

Merchant ships generate an estimated annual income of some USD380 billion in freight rates.

Moreover, shipping thus represents the least environmentally damaging form of commercial transport. Shipping carbon emissions are 5 times less polluting than road transport emissions and 13 times less polluting than air transport emissions.

Public health risks such as resurgent and emerging diseases (plague<sup>1</sup> or SARS<sup>2</sup>), accidental release (Goiânia and Chernobyl accidents), deliberate use of biological and/or chemical agents (sarin gas attack) or civil radio-nuclear material (450 to 500 tons of spent nuclear fuel by 2010) have to be addressed consequently.

Extensive knowledge and understanding of the interaction between the port, vessel and TMAS can only help to ensure that appropriate action is taken at the relevant decision levels.

As a result of this, UMMU proposes a series of seminars dedicated to explaining the far-reaching implications of IHR.

## The seminars

The general objectives of the seminars are to provide detailed and specific information, as well as tools to promote global public health.

UMMU consequently acts as a catalyst of all synergistic conditions for relevant dialogue.

The seminars are co-organized by UMMU and specialized international organizations and professional associations.

A list of suitable speakers is to be agreed upon and could entail political, technological and civil society actors from the health and transport sectors.

The foreseen public will be comprised of: Representatives from the Health and Transport governing bodies, port authorities, seafarers' and shipowners' organizations, as well as international IT and standardisation institutions.

## Preliminary programme

- Day 1:* Introduction to IHR and national maritime health systems;
- Day2:* Impact of IHR on the International Maritime Health System;
- Day 3:* Transposition of IHR provisions in the Memoranda of Port State Control; and
- Day 4:* IHR Core Capacities and Space Capabilities.

## Methodology

Two weeks prior to the training course, participants will be required to prepare a contribution in advance by using a preparatory set of specific information.

At the beginning of the course, participants will be asked to present their work, as well as the main characteristics of their country's legal framework. This short presentation should focus on prevention and response containment of public health risks in the Shipping Industry.

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<sup>1</sup> World Health Organization, weekly epidemiological record n° 28.

<sup>2</sup> World Health Organization, WHA56.29.



## Outcomes

At the end of the four-day seminar series participants will be able to:

- Decipher and teach the complex interactions of IHR with other existing international instruments;
- Assist, whenever possible, in the improvement of regulatory framework;
- Transpose the international obligations into regional and/or national regulations in order to enforce and improve the minimum standards;
- Establish and implement effective operational procedures;
- Correlate the challenges of the IHR compliance with existing technological solutions offered by space capabilities.

## Financial support

Financial support is expected to come from both public and private partnerships.



## List of appendices

- Appendix 1 *Day 1:* Introduction to IHR and to national maritime health systems  
*Day 2:* Impact of IHR on the international health maritime system
- Appendix 2 *Day 3:* Transposition of IHR provisions in Memoranda of Understanding of Port State Control
- Appendix 3 *Day 4:* IHR core capacities and space activities, how do they work?
- Appendix 4 Event information
- Appendix 5 List of International Organizations working in health sector
- Appendix 6 List of Space Agencies
- Appendix 7 List of Memoranda of Understanding on Port State Control
- Appendix 8 List of Non-Governmental Organisations working in the health sector

## Appendix 1

### Day 1: Introduction to IHR and to national maritime health systems

#### Specific objectives

- IHR presentation; and
- Presentations by participants, with their country's legal framework.

#### Speakers (to be agreed)

#### Programme

Morning	Afternoon
<ul style="list-style-type: none"> <li>• Training programme presentation</li> <li>• Co-organizers presentations</li> <li>• IHR presentation(1)</li> <li>• Participants' presentations (1)</li> </ul>	<ul style="list-style-type: none"> <li>• Participants' presentations (2)</li> </ul>

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### Day 2: Impact of IHR on the international health maritime system

#### Specific objectives

- To assess and develop technical knowledge of IHR;
- IHR impact on the International Health Maritime System; and
- Identification of key points on harmonization of the International Health System in the Shipping Industry.

#### Speakers (to be agreed)

#### Programme

Morning	Afternoon
<p><b><i>IHR and their impact</i></b></p> <ul style="list-style-type: none"> <li>• Presentation of IHR (2)</li> <li>• Assess the development of the core capacities through the interfaces port/vessel/TMAS; and</li> <li>• Impact of IHR in the International Health System.</li> </ul>	<p><b><i>Workshops on the current situation and the developments to be made</i></b></p> <ul style="list-style-type: none"> <li>• Workshop 1 for Policy Makers, Port Authorities and Law Makers</li> <li>• Workshop 2 for Public Health Managers</li> <li>• Workshop 3 for Experts and Seafarers directly dealing with the risk in the field.</li> </ul>

## Appendix 2

### Day 3: Transposition of IHR provisions in the Memoranda of Port State Control

#### Specific objectives

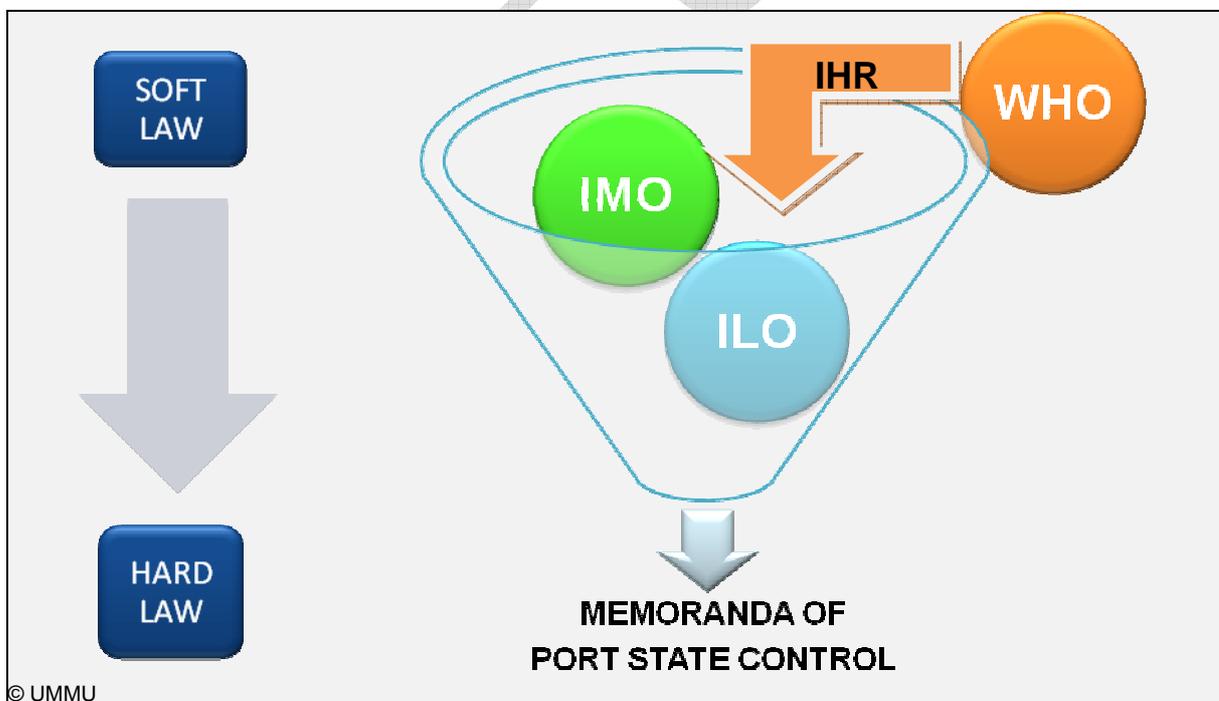
- Presentation to the MoU of Port State Control; and
- Identification of the most relevant IHR provisions to be transposed in the regional agreements: the Memoranda of the Port State Control (i.e. IMO and ILO instruments).

#### Speakers (to be agreed)

#### Programme

Morning	Afternoon
<p><b>The Health Passport: Possible place of IHR in MoU of Port State Control</b></p> <ul style="list-style-type: none"> <li>• Legal aspects IHR position and provisions in the regional agreements;</li> <li>• Economic aspects; and</li> <li>• Costs for public services (inspections) and private sector (insurers and shipowners).</li> </ul>	<p><b>Workshops on possible transposition of IHR provisions</b></p> <ul style="list-style-type: none"> <li>• <i>Workshop 1:</i> IHR provisions and procedures in Memoranda of Port State Control;</li> <li>• <i>Workshop 2:</i> The Regional Databases and the Computerized Information System; and</li> <li>• <i>Workshop 3:</i> The harmonization of Port State Control standards worldwide.</li> </ul>

Table



### Appendix 3

#### Day 4: IHR core capacities and space capabilities, how does this work?

##### Specific objectives

- Update on Space Capabilities (remote-sensing, navigation and telecommunication) as tools to enable States achieve their IHR obligations;
- Understand the potential of Space Capabilities in support of IHR Core Capacities; and
- Understand the communication lines and procedures between the Port/Vessel/TMAS.

##### Speakers (to be agreed)

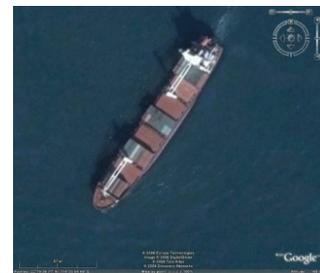
##### Programme

Morning	Afternoon
<b><i>IHR space capabilities</i></b>	<b><i>Workshops</i></b>
<ul style="list-style-type: none"> <li>• Early reporting</li> <li>• Communicable disease, chemical or nuclear accident detection/diagnostic</li> <li>• Disease containment</li> <li>• Care and treatment patient</li> <li>• Decontamination and cleaning of vessel</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Workshop 1:</i> Emergency plan implementation</li> <li>• <i>Workshop 2:</i> Equipments implementation</li> <li>• <i>Workshop 3:</i> Interoperability of systems.</li> </ul>

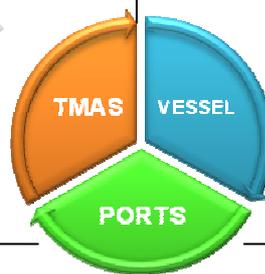
##### Table



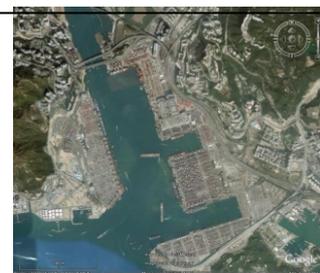
TMAS: Toulouse, FR  
picture ©Google Earth



Vessel - picture ©Google Earth



Port of destination: Houston, US  
picture ©Google Earth



Port of departure: Hong Kong, HK  
picture ©Google Earth

**Appendix 4****Event information**

1. **Co-organizers:**  
Universal Marine and Maritime Union (UMMU)
2. **Programme coordinator & Legal advisor:** Guillaume Loonis-Quélen (president of UMMU)  
**Address:** UMMU  
P.O. Box 2121  
CH-1211 Geneva 1 / Switzerland  
**Email:** info@ummu.ch **Skype:** ummu.network
3. **Proposed event title:** Shipping Industry and Health Risks  
Framework, Methods, Challenges, Perspectives
4. **Proposed dates:** 2009
5. **Number of participants:** 15–40
6. **Duration:** 4 days
7. **Type of event:** Training programme
8. **Periodicity:** on an annual basis
9. **Conference Room:**  
**Exhibition surface:**  yes:                      m<sup>2</sup>:                       no  
**Offices:**  yes,                      quantity:                       no  
**Interpretation:**  yes,                      languages:                       no  
**Video-conference:**  yes                       no

## Appendix 5

### List of International Organizations linked to the health sector

- World Health Organization (WHO)
- Geneva Centre for Security Policy (GCSP)
- INMARSAT
- Division for Ocean Affairs and the Law of the Sea (UNCLOS)
- UN Committee of Experts (UNCOE) on the Transport of Dangerous Goods (TDG) and on the Globally Harmonized System of Classification and Labelling (GHS)
- International Maritime Organization (IMO)
- World Maritime University (WMU)
- International Atomic Energy Agency (IAEA)
- Organisation for the Prohibition of the Chemical Weapons (OPCW)
- Food and Agriculture Organization (FAO)
- World Trade Organization (WTO)
- International Labour Organization (ILO)
- World Tourism Organization (UNWTO)
- World Organization for Animal Health (OIE)
- International Telecommunication Union (ITU)
- International Mobile Satellite Organization (IMSO)
- Organization for Economic Co-operation and Development (OECD)
- World Customs Organization (WCO)

**Appendix 6****List of Space Agencies**

Europe	European Space Agency (ESA)
China	China National Space Administration (CNSA)
Russian Federation	Federal Space Agency (FSA)
Indonesia	Lembaga Penerbangan dan Antariksa Nasional (LAPAN)
Greece	Institute for Space Applications and Remote Sensing (ISARS)
Republic of Korea	Korea Aerospace Research Institute (KARI)
Norway	Norwegian Space Centre (NSC)
Japan	Japan Aerospace Exploration Agency (JAXA)
Italy	Agenzia Spaziale Italiana (ASI)
Netherlands	Netherlands Agency for Aerospace Programmes (NIVR)
India	Indian Space Research Organisation (ISRO)
United Kingdom	British National Space Centre (BNSC)
United States	National Aeronautics and Space Administration (NASA)
Thailand	Geo-Informatics and Space Technology Development Agency (GISTDA)
Germany	Deutsche Forschungsanstalt für Luft- und Raumfahrt (DLR)
Denmark	Danish Space Research Institute (DSRI)
Sweden	Swedish Board Space Activities (SBSA)
Ukraine	National Space Agency of Ukraine (NSAU)
Canada	Canadian Space Agency (CSA/ASC)
Spain	Instituto Nacional de Técnica Aeroespacial (INTA)
France	Centre National d'Études Spatiales (CNES)
Brazil	Instituto Nacional de Pesquisas Espaciais (INPE)
Syrian Arab Republic	General Organization of Remote Sensing (GORS)
Finland	National Technology Agency (TEKES)
Bulgaria	Bulgarian Aerospace Agency (BASA)
Belgium	Belgian Institute for Space Aeronomy (BISA)
Saudi Arabia	King Abdul Aziz City for Science and Technology (KACST)
Australia	Commonwealth Scientific and Industrial Research Organisation (CSIRO)
Chile	Agencia Chilena del Espacio
Argentina	National Commission on Space Activities (CONAE)

**Appendix 7****List of Memoranda of Understanding on Port State Control**

- Paris Memorandum of Understanding on Port State Control
- Tokyo Memorandum of Understanding on Asia Pacific Port State Control
- Caribbean Memorandum of Understanding on Port State Control
- Latin American Agreement on Port State Control – Viña del Mar 1992
- Indian Ocean Memorandum of Understanding on Port State Control
- Mediterranean Memorandum of Understanding on Port State Control
- Black Sea Memorandum of Understanding on Port State Control

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**Appendix 8**  
**List of Non-Governmental Organisations linked to the health sector**

- Universal Marine and Maritime Union (UMMU)
- Baltic and International Maritime Council (BIMCO)
- Comité Maritime International (CMI)
- Comité International Radio Maritime (CIRM)
- Cruise Lines International Association (CLIA)
- International Association of Classification Societies (IACS)
- International Association of Drilling Contractors (IADC)
- International Association of Ports and Harbours (IAPH)
- International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA)
- International Chamber of Commerce (ICC)
- International Chamber of Shipping (ICS)
- International Council of Cruise Lines (ICCL)
- International Trade Union Confederation (ITUC)
- International Harbour Masters' Association (IHMA)
- International Association Of Dry Cargo Shipowners (INTERCARGO)
- International Association of Independent Tankers Owners (INTERTANKO)
- International Federation of Shipmasters' Associations (IFSMA)
- International Parcel Tanker Association (IPTA)
- International Shipping Federation (ISF)
- International Organization for Standardization (ISO)
- International Union of Marine Insurance (IUMI)
- Oil Companies International Maritime Forum (OCIMF)
- International Association of Oil and Gas Producers (OGP)
- The International Group of P & I Associations (P & I Clubs)
- Society of International Gas Tanker and Terminal Operators (SIGTTO)
- International Maritime Health Association (IMHA)
- Seafarers International Research Centre (SIRC)
- Nippon Foundation
- International Association of Maritime Universities (IAMU)
- International Transport Worker's Federation (ITF)
- World Nuclear Association (WNA)
- World Nuclear Transport Institute (WNTI)
- Vessel Operators Hazardous Materials Association (VOHMA)
- International Electrotechnical Commission (IEC)
- International Union of Marine Insurance (IUMI)
- International Maritime Pilots' Association (IMPA)
- Inter ferry
- Institute of International Container Lessors (IICL)