

An aerial photograph of a large cruise ship, the MSC Britania, sailing on a deep blue ocean. The ship is white with multiple decks and is moving from the top left towards the bottom right, leaving a white wake. The name 'MSC BRITANIA' is visible on the side of the ship. The background is a vast expanse of blue water with some whitecaps.

Maritime Safety Management in Pandemic Era

*Focusing on
Passenger Ships*

TEAM: SEAMASTER

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OVERVIEW**

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INTRODUCTION

- COVID-19 OUTBREAK
- DEFINITION OF PASSENGER SHIPS
- WHY IS THIS NECESSARY?

01



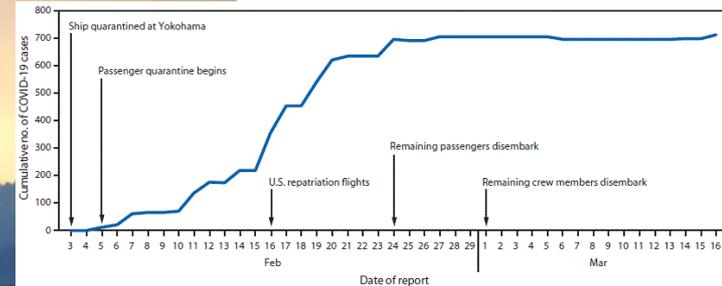
More than 3,700 passengers and crew from 56 countries on board



Coronavirus lived on Diamond Princess cruise ship for up to 17 days, CDC says



Cruise ship outbreak helps pin down how deadly the new coronavirus is

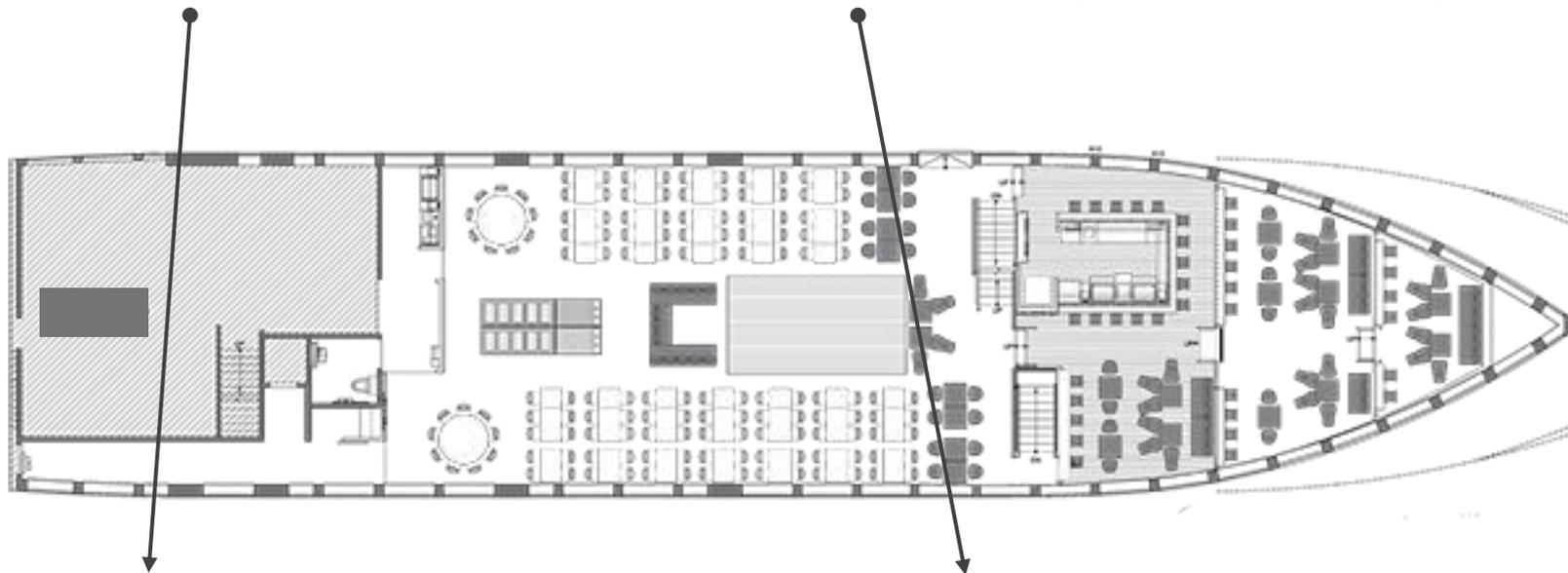


Over 700 people infected (567 passengers & 145 crew members) + 14 deaths



Definition of Passenger Ship

A passenger ship is a ship that carries more than 12 passengers, and it is at least 500 gross tonnage



SOLAS Regulation 2 - Definitions

STCW Chapter 2

(f) A passenger ship is a ship which carries more than twelve passengers.

Why is this necessary?

SAFETY AWARENESS



RESPONSIBILITY



**FUTURE
PRECAUTIONS**



**QUICK REACTION TO
EMERGENCIES**



GOAL AND STRATEGIC PLAN

Proposal for MSC and TCC

Implementation of efficient pandemic control on passenger ships

SD7- Ensure organizational effectiveness

BIENNUM(2 YEARS) EXECUTION PLAN

- NEW MODULE ON GISIS
- REINFORCE MONITORING
- AMENDMENTS TO STCW

6 YEARS LONG TERM

- QUARANTINE FACILITY ESTABLISHMENT

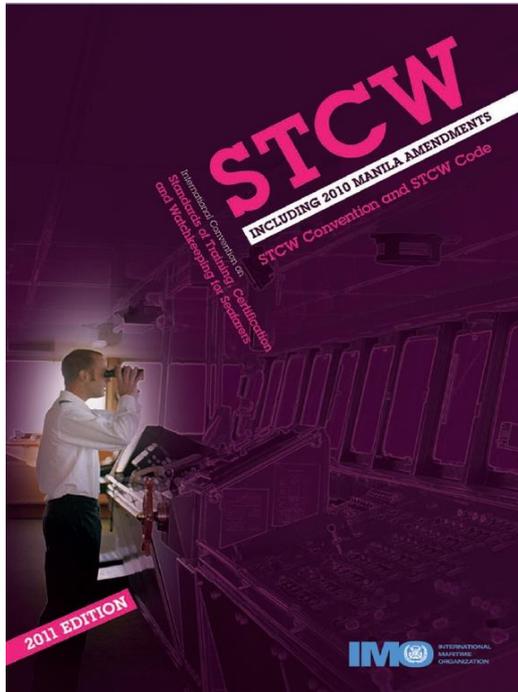
BACKGROUND OVERVIEW

02



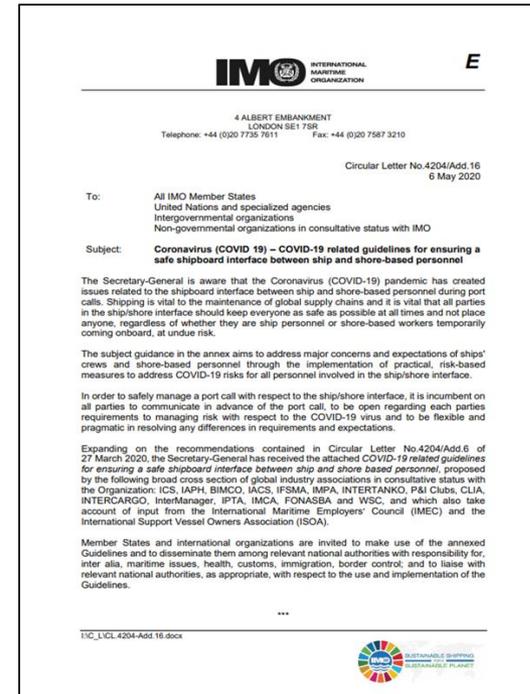
Conventions & Guidelines

STCW



Requirements and standards for training certification and watchkeeping

IMO Guidelines



General guidelines to control pandemic situations released by IMO

STCW Convention & Code

Adopted: 1978, Last amended: 2016 (97th Session of MSC)

Purpose

Sets minimum basic requirements on training, certification, and watchkeeping for seafarers

Divided into 3 levels of responsibility – management, operational, and support level

Includes Tables of Standards of Competence to measure each performance of functions

Key Contents

Section A-I/9 – Medical standards

Chapter II – Standards & guidance regarding the master and deck department

Section A-V/2 & Table A-V/2 - Mandatory minimum requirements for the training and qualification of masters

Chapter VI – Specification of minimum standard of competence in crisis management and human behavior

Section B-I/9 – Guidance regarding medical standards

IMO Guidelines

Ongoing

Mid-term Period

March – May 2020

- Guidelines & Discussions on Variety of Situations
→ **Key: Circular Letter No.4204/Add.14**

- Various Suggestions on Variety of Situations according to IHR, WHO guidelines
- Changes from Early Period: Fundamental Suggestions
→ Specific Cases

- Changes from Mid-Term: Guidelines about Specific Topics
→ Specific Actors

BUT

- **Lack of sufficient communication measures between ports and ships**
- **Lack of passenger management**

Early Period

December 2019 –
March 2020

- Two Parts (Pre & Post Diamond Princess Crisis)

Pre-Diamond Princess

- Report on COVID 19 cases in China & Asia
- i.e.) basic sanitations, self examination, etc.

Post-Diamond Princess

- IHR, WHO based crew member & Passenger guidelines

PROBLEM ANALYSIS

- DISINTEGRATED DATABASES
- LACK OF PANDEMIC CONTROLS IN THE STCW
- INCAPABILITIES OF LDC PORTS

03

Disintegrated Databases

1.



WHO Database

Disease Information

2.



IMO

Port – Ship
Information (GSIS)

Two Separate Databases → **Comprehensive Database**

Lack of Pandemic Protocols in the STCW

1

Chapter II – Standards & Guidance regarding the master and deck department



Table-II/2 – No specific competence measurement for pandemic situation

2

Section B-I/9 – Guidance regarding medical standards

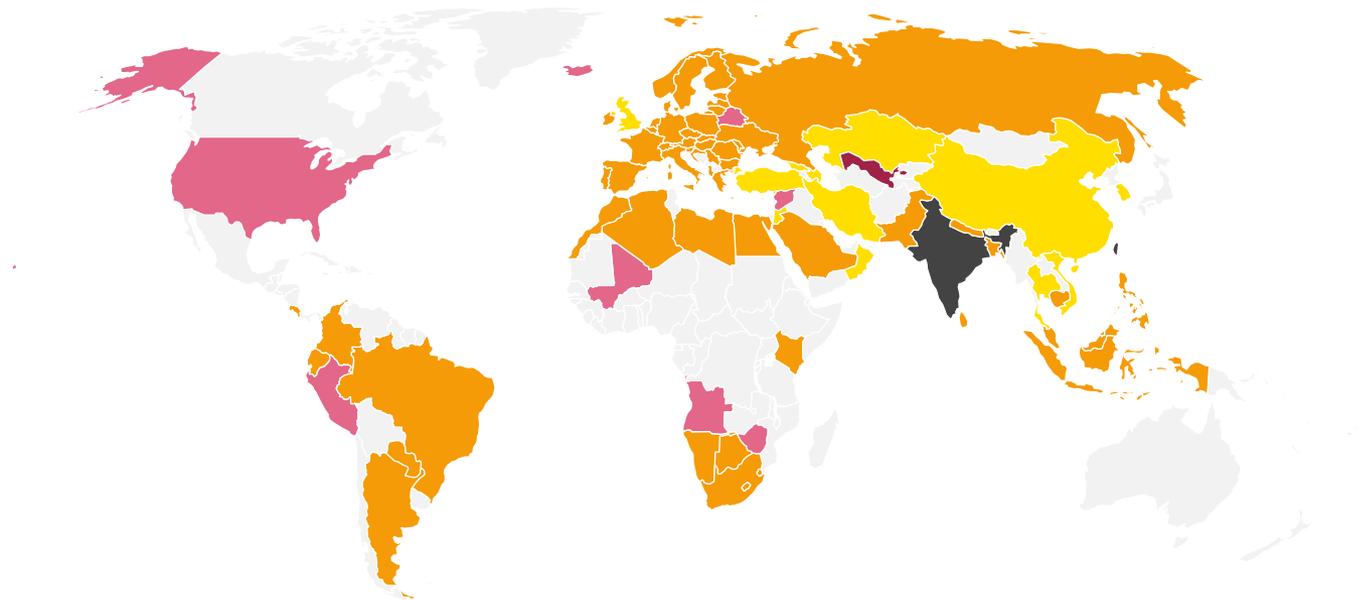


Table B-I/9 – Emergency duties on board are limited to escape, fire-fighting, and evacuation

STATUS QUO

Exports of medical supplies & medicines: 90 jurisdictions are reported executing a total of 191 export controls since the beginning of 2020

Updated on 31 July 2020



January
measures



February
measures



March
measures



April
measures



May-July
measures

Inability of Ports to Control and Manage the Epidemics

1

No Medical Supplies



2

No Medical Facilities



3

No Quarantine/
Epidemiological
Capability



SOLUTIONS

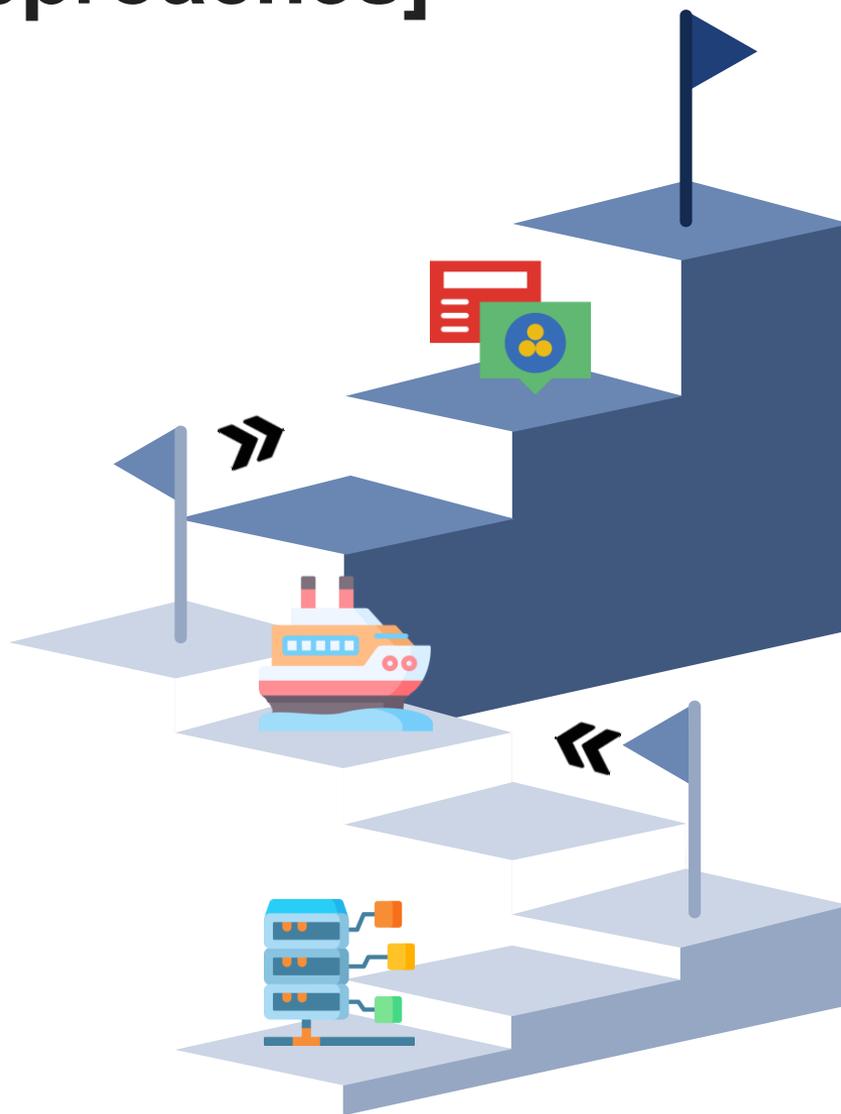
- STRATEGIC PLAN
- 3 STEP APPROACHES
 - SHORT-TERM
 - PROCEDRAL/LLEGAL
 - LONG-TERM

04

[3 Steps Approaches]

Procedural /Legal

Amendments to
STCW
Port Quarantine
Facilities



Long-Term

Financial Support
(ITCP/TC fund)

Short-Term

Database
Management
(WHO-IMO)

GOAL AND STRATEGIC PLAN

Proposal for MSC and TCC

Implementation of efficient pandemic control on passenger ships

SD7- Ensure organizational effectiveness

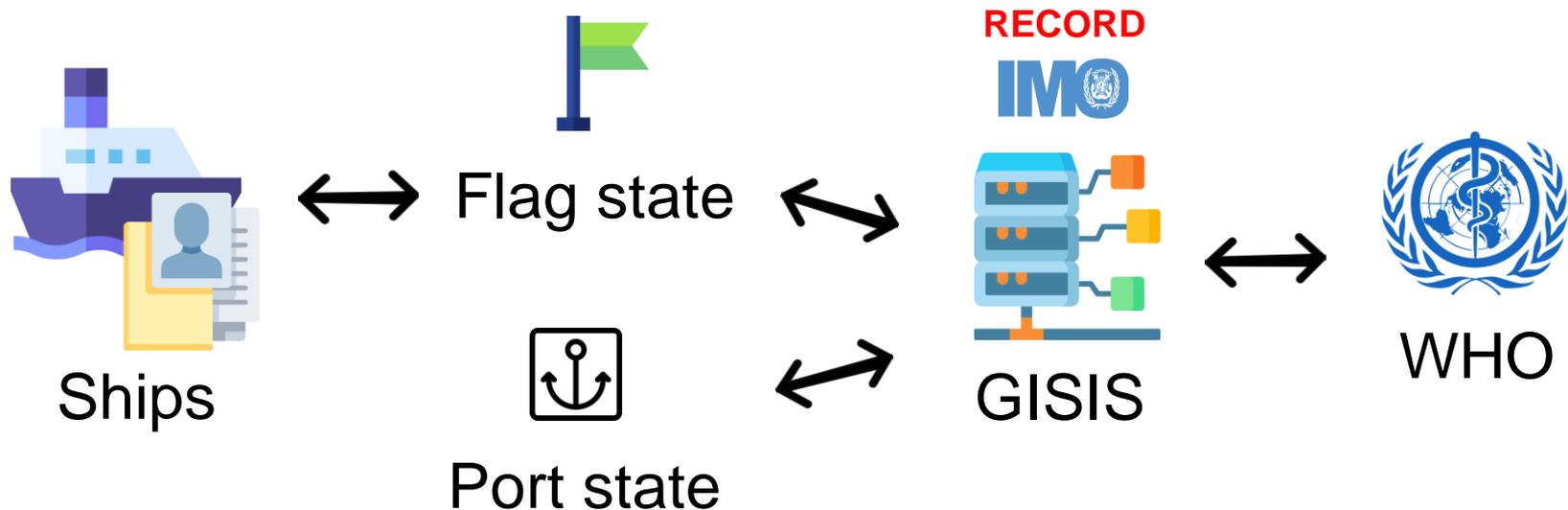
BIENNUM (2 YEARS) EXECUTION PLAN

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6 YEARS LONG TERM

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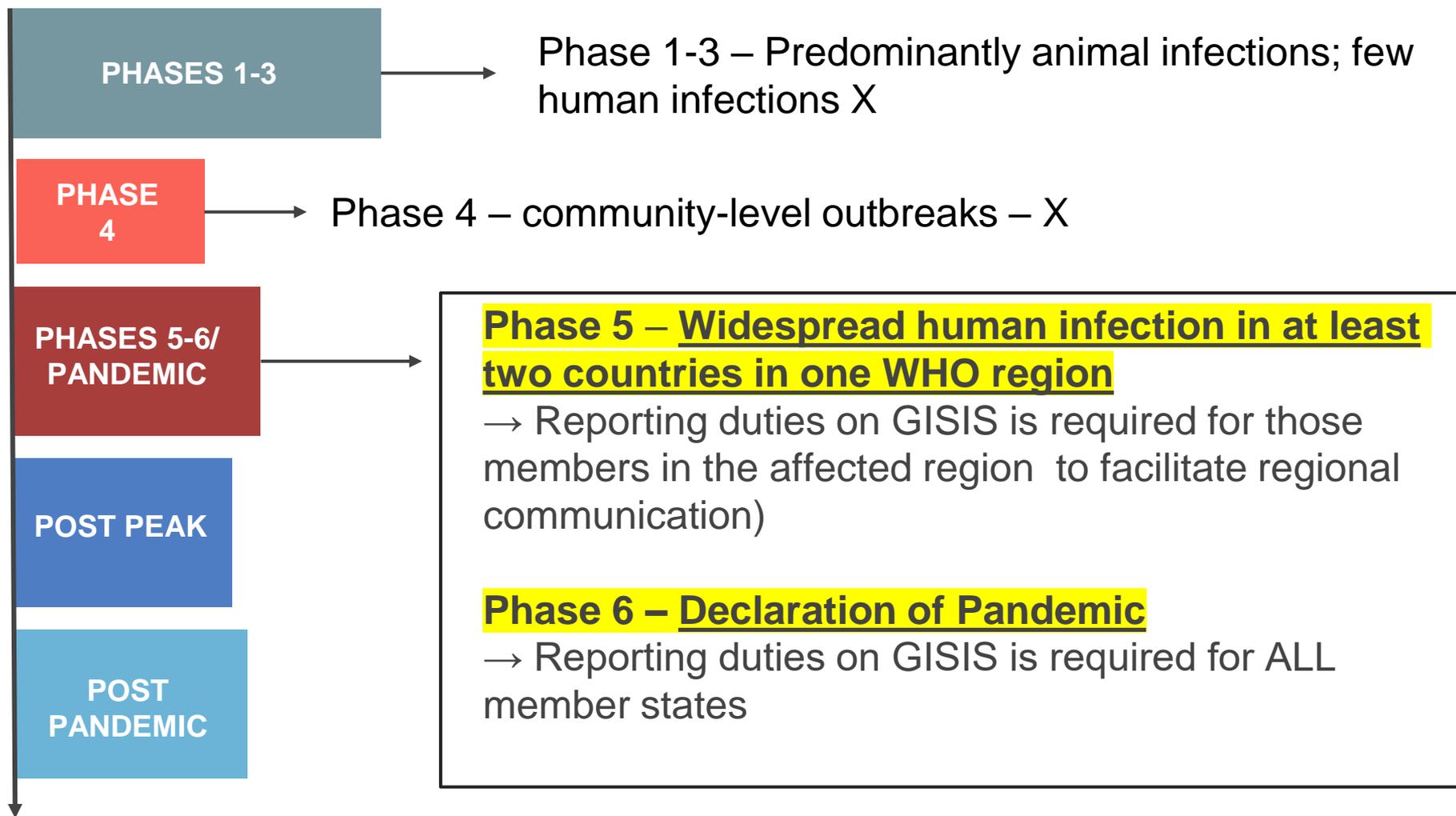
Temporal Epidemiological Information Module on GISIS



- ◆ Not available to public but only limited for verified institutions
- ◆ Personal information of the confirmed cases necessary for quarantine measures will be revealed to interested nations
- ◆ Ship initially should collect health screening data of all people on board and should be managed within the ship and if any possible cases arise such info will be transferred to flag state

Phased Application of Database

Time



Epidemiological Information Module

HEALTH SCREENING QUESTIONNAIRE - PASSENGERS/TEMPORARY VISITORS

1. Name
2. Age
3. Gender
4. Nationality
5. Cabin no.
6. Personal contact info (kept until 3 months after disembarkation)
7. Agreement with terms and conditions
8. Do you have your own Personal Protection Equipment?

Health screening questionnaire for temporary visitors and passengers (adopted from COVID-19 EU Guidance for Cruise Ship)

Introductory text needed to explain the reason for this data collection, the process for handling personal information and the period for which the data will be held.

Do you agree to the terms and conditions stated above? Yes/No 7 1

Personal identification (first and last name): _____

Age: 2 Gender: 3 Cabin number: _____ 5

Nationality: 2 _____ 4

Personal contact information: _____ 6

1. In the last 14 days before your journey, have you had any of the following symptoms? (Please mark Yes or No next to each symptom)

i.	Recently developed cough (dry or productive).	Yes/No
ii.	Fever (or feeling feverish)	Yes/No
iii.	General weakness	Yes/No
iv.	Generalized muscle aches	Yes/No
v.	Sudden loss of smell and/or taste	Yes/No

2. In the last 14 days before your journey, were you in contact with anyone diagnosed with COVID-19 infection?
Yes/No

3. In the last 14 days before your journey, list the cities and countries you have visited and indicated the duration of your stay in each one:

Place: _____ Duration: date of arrival _____ date of departure _____

Place: _____ Duration: date of arrival _____ date of departure _____

Text needed to provide information to the passenger on the disease and explain where to find more information and/or seek advice, if needed.

Assessment section:

1. Temperature check:
2. Other vital signs:
3. Use of antipyretics or other analgesics, up to 4 hours before temperature check: Yes/No
4. Possession of Personal Protection Equipment: Yes/No

Assessment decision: _____ 8

Name of Seafarer:

Date:

[Medical Certificate]

[Number/Reference:]

[Date of Examination:]

[Date of Expiry:]

Crew Change Type:

Joining ship

Leaving ship

If joining ship,

Place of Ordinary Residence:

(i.e. city/town, country)

If leaving ship,

Ship Name:

IMO No.:

Flag State:

Capacity/Position:

Have gone on shore leave in the last 14 days?

Yes / No

Have you maintained a safe distance from any shore-side persons that have boarded the ship in the last 14 days?

Yes / No

Have you received information and guidance on the coronavirus (COVID-19), including about standard health protection measures and precautions?

Yes / No

Do you understand and comply with applicable standard health protection measures and precautions to prevent the spread of the coronavirus (COVID-19), such as proper hand washing, coughing etiquette, appropriate social distancing?

Yes / No

During the last 14 days, have you:

- Tested positive for being infected with the coronavirus (COVID-19)?

Yes / No If "Yes", please provide date of test and name of test:

CREW HEALTH SCREENING QUESTIONNAIRE

- Tested positive for the antibodies for the coronavirus (COVID-19)?

Yes / No If "Yes", please provide date of test and name of test:

- Shown any symptoms associated with the coronavirus (COVID-19), specifically,

A new and continuous cough: Yes / No

A fever: Yes / No

- Completed a period of self-isolation related to the coronavirus (COVID-19)?

Yes / No If "Yes", please explain the circumstances and the length of self-isolation:

- Had close contact with anyone that has tested positive for coronavirus (COVID-19)?

("Close contact" means being at a distance of less than one metre for more than 15 minutes.)

Yes / No

- Had close contact with anyone with symptoms of the coronavirus (COVID-19)?

("Close contact" means being at a distance of less than one metre for more than 15 minutes.)

Yes / No

- Maintained good personal hygiene and complied with applicable health protection measures and precautions?

Yes / No

I confirm that the information provided above is correct to the best of my knowledge.

Signature:

Date:

DAILY TEMPERATURE RECORDS – KEPT WITHIN SHIP

Daily Temperature Check Records (adopted from IMO Circular Letter No.4204/Add. 14)

Name: _____ () of () pages

I confirm that the information below is an accurate record of my body temperature.

Signature: _____

Date*

Check 1

Check 2

Temperature** Time

Temperature** Time

CLASSIFICATION OF DATA

SHIP INFO

IMO SHIP IDENTIFICATION NO.
SHIP NAME
FLAG STATE
SHIP COMPANY
MASTER
PORT OF ENTRY
REAL-TIME LOCATION
(UPDATED REGULARLY BASED ON
ALTITUDE & LATITUDE)

PERSONAL INFO

TIME & PLACE OF BOARDING & EXIT

PERSONAL INFO

Surname
Age
Gender
Nationality
Cabin number

EPIDEMIOLOGICAL INFO

Symptoms
Symptom Presentation date
Temperature
Contacts

CATEGORIES TYPES OF CASES

- 1) confirmed case (laboratory criteria)
- 2) possible case (clinical criteria)
- 3) probable case (clinical criteria, epidemiological link)
- 4) contacts

TYPES OF PEOPLE ON BOARD

- 1) Crew members
- 2) Passenger
- 3) Temporary visitor

Port Quarantine Facility



Strongly urges member states to **establish port quarantine facility** and effective protocols to contain pandemic situation.

For the purposes of but not limited to:

1. Allocation of insufficient medical supplies,
2. Protection of seafarers and passengers,
3. Prevention of mass contagion.

Monitoring/ Advisory compliance

IMO Regional Office

Phase 1 – Real time video inspection for initial monitoring of port quarantine facilities and self report of monitoring

Phase 2 – Send IMO regional officers for direct monitoring

CHECKLIST

1. Is there a designation of special area for people arriving at the port?
2. Is there an approach for the transportation of people from the special area to the ship?
3. Does the given procedures avoid any opportunities for contact and non- essential interactions with other persons?
4. Is there sufficient medical care provided to the patients?
5. Is there any possible disposal system for possible contaminated materials?
6. Is there any competent medical staff/practitioner available at site?
7. Is there sufficient medical supplies available at site?
8. Is there adequate disinfection equipment and PPE available at site?



Amendments to STCW Convention & Code

How should it be amended?

- ✓ **Changes from management level to support level**
- ✓ **Responsibility and competence of master and other chief officers should be prioritized**
- ✓ Sufficient knowledge, understanding and level of proficiency for pandemic situations should be readily written and regulated efficiently
- ✓ Designation of medical manager who the master of the ship deemed competent with the valid medical certificate

Amendments to STCW Convention & Code

Table A-II/2 – Specification of min. standard of competence for masters and chief mates on ships of 500 gross tonnage or more.

Competence	Knowledge, understanding, and proficiency
Develop emergency and damage control plans and handle emergency situations	<p>Preparation of contingency plans for response to emergencies</p> <p>Ship construction, including damage control</p> <p>Methods and aids for fire prevention, detection and Extinction</p> <p>Functions and use of life-saving appliances</p>

ADD

Preparation of quarantine plans and designation of medical manager and isolation area in cases of outbreak of infectious disease onboard

ADD

Immediate report to be made to competent authorities of next port of call, flag state, and company

Amendments to STCW Convention & Code

Table B-I/9 – Assessment of min. entry level and in-service physical abilities for seafarers

Shipboard task, function, event or condition	Related physical ability
Emergency duties on board: <ul style="list-style-type: none"> - Escape - Fire-fighting - Evacuation 	Don a lifejacket or immersion suit Escape from smoke-filled spaces Take part in fire-fighting duties, including use of breathing apparatus Take part in vessel evacuation procedures

ADD – 1st Column

Onboard quarantine measures

ADD – 2nd Column

Follow given quarantine procedures in case of mass contagion

Long-Term Approach

Reinforcing Integrated Technical Cooperation Program (ITCP) for Medical Facility/TC Fund



- Assist LDCs to implement IMO instruments for safer and more secure shipping
 - Utilize Technical Cooperation (TC) fund
- Allows LDCs that have no adequate resources/facilities to apply appropriate medical measures to contain mass-infectious disease like COVID-19

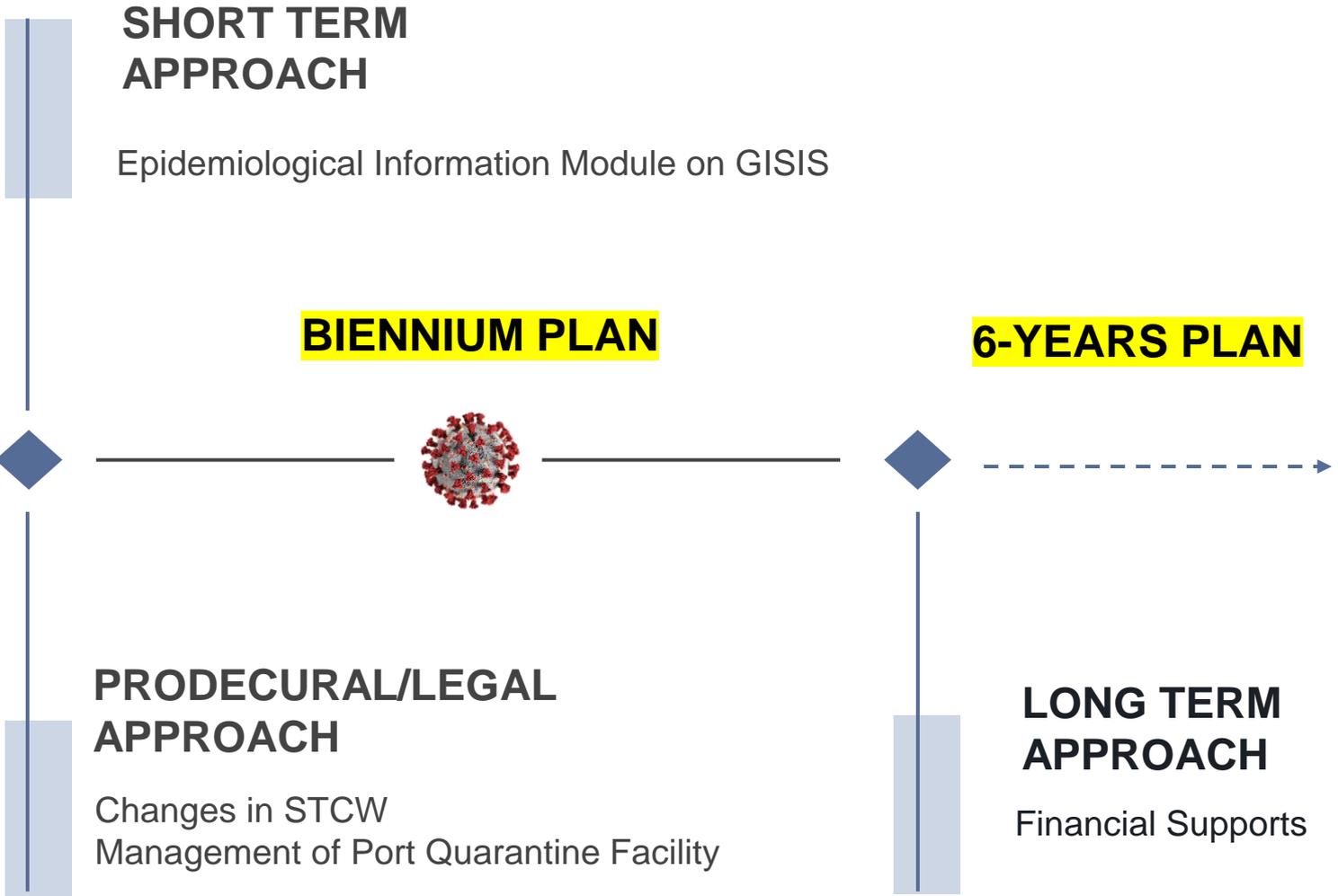
CONCLUSION

Maritime Safety
Management in
Pandemic Era
*Focusing on
Passenger Ships*

05

Conclusion

SD 7- ENSURE ORGANIZATIONAL EFFECTIVENESS



Thank You.

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