

Incorporating Pandemic Related Health Information on the Maritime Single Window Data Set



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Background

- 1. Pandemic Situation
- 2. Urgency
- 3. IMO Mission



Pandemic Situation COVID-19 Situation



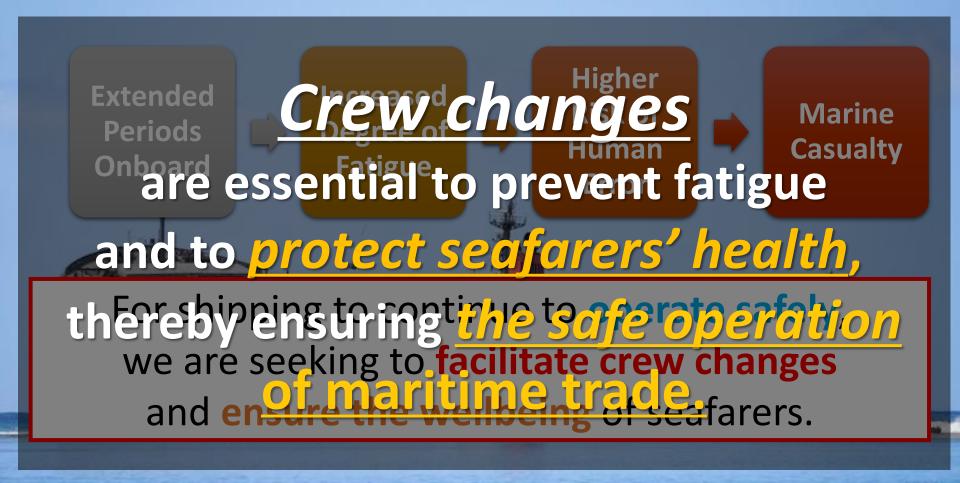
- **COVID-19** is an infectious disease affecting many countries globally.
- Due to the COVID-19 pandemic, port officials and flag states have become extremely cautious in making decisions with risks that can potentially spread the virus.
- As of late September 2020 about **400,000 seafarers exceeded** their contract period, **unable to return** to their homes due to congestion in the process.
- This crisis generated human distress and economic downturn!



Urgency

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Why Crew Change is Urgent?





IMO Mission Strategic Plan – SD5

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STRATEGIC PLAN FOR THE ORGANIZATION FOR THE SIX-YEAR PERIOD 2018 to 2023

MISSION STATEMENT

The mission of the International Maritime Organization (IMO), as a United Nations specialized agency, is to promote safe secure environmentally sound efficient and sustainable shipping through cooperation. This will be accomplished by adopting the highest practicable standards of maritime safety and security, efficiency of navigation and prevention and control of pollution from ships, as well as through consideration of the related legal matters and effective implementation of IMO instruments, with a view to their universal and uniform application.

SD 5: Enhance global facilitation and security of international trade

The prevention of disruption to international shipping through electronic transmission of relevant documents!

SD 5: Enhance global facilitation and security of international trade

- Shipping moves around 80%¹ of world trade, making it an integral part of the global economy and supply chain. The prevention of disruption to international shipping is therefore in the interest of all. Continued effort is needed to ensure that ships move from port to port without undue delay arising from arrival and departure formalities, to provide for safe transportation and effective facilitation of international trade, and to ensure that appropriate security measures are in place on all international voyages.
- Threats such as piracy and armed robbery against ships could disrupt international trade, threaten lives, and increase the burden on maritime transport. Furthermore, to ensure the security of the maritime transport network, including vital shipping lanes, IMO will continue to raise awareness of IMO measures for security and to encourage a cooperative approach among Member States and stakeholders.
- 28 Shipping operations are increasingly dependent on electronics and digital technologies and as such are exposed to cyber risks. The Organization will continue to monitor the issue and encourage a cooperative approach among Member States and stakeholders.
- 29 Electronic transmission of relevant information, such as, but not limited to, documents and certificates, simplifies communications between ships, ports and authorities and reduces the administrative burden for those on board and ashore. The challenge is to ensure that information is transmitted securely in a universally accepted form and is verifiable. To take full advantage of the electronic exchange of information, closer cooperation is needed between authorities and the industry at the national and, in certain instances, regional levels.
- 30 To achieve this, IMO will seek further international consensus on reducing, simplifying and standardizing the information required. It will develop global solutions that reduce the burdens by facilitating electronic information exchange and that balance the needs of authorities ashore with the interests of the shipping industry.





Problem Analysis

- 1. IMO's Response
- 2. Current Situation
- 3. Problem Analysis



IMO's Response International Cooperation

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Circular Letter No.4204/Add.29 Page 2

are a matter of great concern. If the crew change crisis is not resolved, ships will no longer be able to operate safely pursuant to the Organization's regulations and guidelines, further exacerbating the economic impacts of the COVID-19 pandemic.

The crew change crisis must be resolved at the soonest possible time. Doing so requires a whole of government approach, across multiple ministries. In that light, I reiterate my call to all Member States to:

esignat all af er in hi ne erson al otoniy na pririsdictic v wc ers ro v an er entra, ervice

2. Implement the protocols and Janace in the Circular Letter No.4204 series and allow for safe and secure crew changes.

3. ve other barriers to crew changes, such as visa estructions, flight restrict in particular transfer of the particular transfer

Further, I request that Member States Insider raising the issue of seafarers and the crew change crisis during the upcoming high-level week of the 75th session of the United Nations General Assembly beginning on 22 September 2020. ILO, IMO and the UN Global Compact are organizing a side event during that week, to raise the visibility of the crew change crisis, most likely to take place on the World Maritime Day on 24 September.

Working together, this challenge to shipping and seafarers can be overcome. I pledge my best efforts and those of the IMO Secretariat in that regard.

1. Designating seafarers as key workers,

protocols,

are required

prior to resolving the creve hange crisis

INTERNATIONAL COOPERATION

Circular Letter No.4204/Add.29;



World Health

Organization

Current Situation

27 May 2020

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Uncertainty During Pandemic

Regardless of the IMO's request, member states are *still reluctant* to cooperate and give exemption to the seafarers because of uncertainty.



originates from the uncertainty

of crew member's health conditions.

and much remains unknown and evolving about the situation and the virus that causes it.

- Uncertainty leads to fear, panic and loss of trust among people.
- Risk communication and Community Engagement (RCCE) research identifies tactics to communicate and manage uncertainty effectively by building public trust in health authorities and gaining adherence to health recommendations.

Fear the risk of COVID-19



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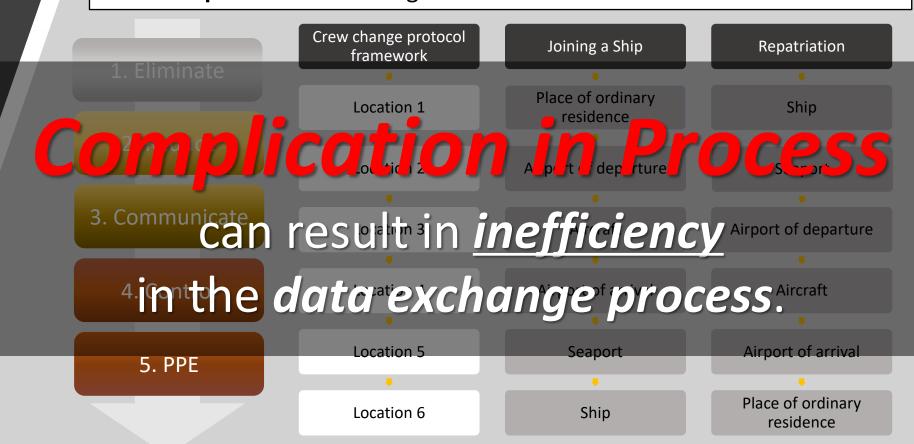
Current Situation Lack in Digital Infrastructure





Current Situation Interrupt Efficiency in Process

Different procedures to mitigate the risk of infection related to the virus.



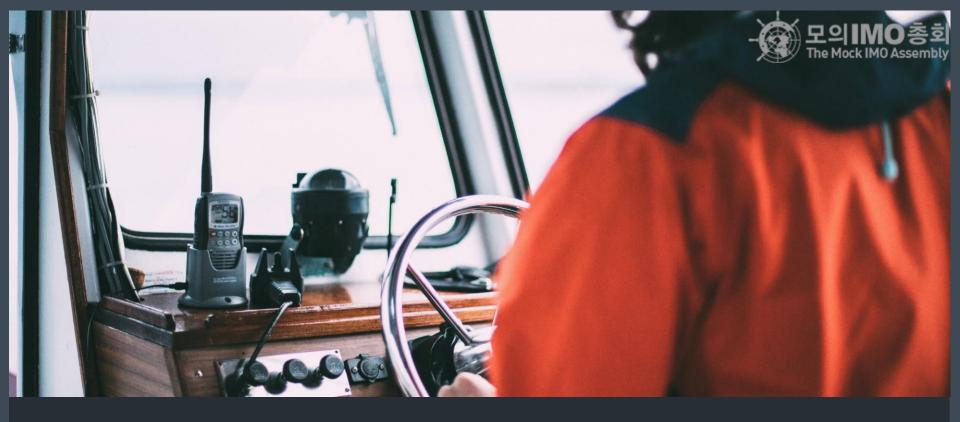


Problem Analysis





- 1. Proposal
- 2. Solution
- 3. Expected Outcome



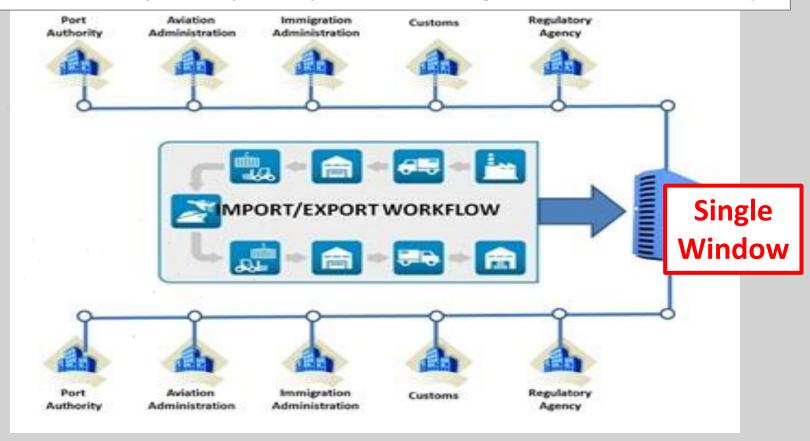
[Proposal]
Incorporate Pandemic Related
Health Information on the
Maritime Single Window Data Set!!



SolutionSingle Window Concept

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- Mandatory for ships and ports to exchange FAL data electronically.

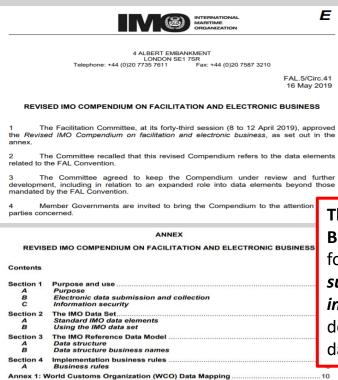




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Solution IMO Compendium

Update on FAL.5/Circ.41 IMO Compendium on Facilitation and Electronic Business



Annex 2: United Nations Economic Commission for Europe (UNECE) Data Mapping .10

Annex 3: International Organization for Standardization (ISO) Data Mapping

Section	on 1	Purpose and use
A	Purp	ose
1.1	The C	Compendium on Facilitation and Electronic Business (Compendium) serves as a
refere	nce mar	nual for creating and harmonizing the systems needed to support transmission
		sponse of information required for the arrival, stay and departure of the ship
neren		
perso	ns and c	argo via electronic data exchange, namely the following declarations:
perso		
perso	.1	argo via electronic data exchange, namely the following declarations: General Declaration;
perso		
perso	.1 .2	General Declaration;
perso	.1	General Declaration;
perso	.1 .2 .3	General Declaration; Cargo Declaration; Ship's Stores Declaration;
perso	.1 .2	General Declaration; Cargo Declaration;

The Compendium on Facilitation and Electronic
Business (Compendium) serves as a reference manual
for creating and harmonizing the systems needed to
support transmission, receipt and response of
information required for the arrival, stay and
departure of the ship, persons and cargo via electronic
data exchange, namely the following declarations:

concept as a high-lever phony of the Organization and supports interoperability among single window systems. Single window processes enhance efficient international trade by simplifying communications among stakeholders and creating an electronic information environment that promotes accountability, transparency and informed decision-making.

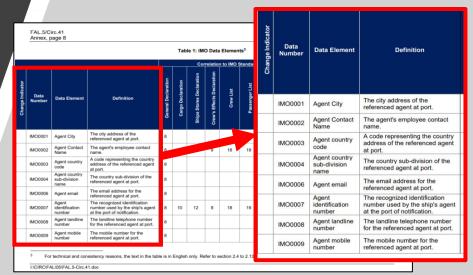
FAL.5/Circ.41; 16 / 37

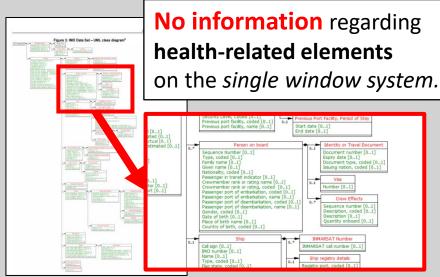


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Add Health Information

FAL.5/Circ.41: IMO Data Elements, UML Class Diagram





Absence of <u>health information</u> **stalls** efficient communication

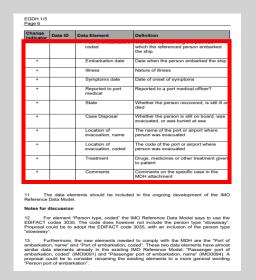
FAL.5/Circ.41; 17 / 3



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EGDH 1st Session Agenda





hange	Data ID	Data Element	Definition
Idicator	IMO0110	Port of call sequence number	A number indicating the order of a port of call on a list.
	IMO0127	Previous port of call, coded	A code representing a previous port of call.
	IMO0126	Previous port of call, name	The name and country of a previous port of call
	IMO0125	Previous port facility call end date	The end date of a previous port facility call.
	IMO0086	Number of crew	The count of persons actually employed for duties on board during a voyage in the working or service of a ship and included in the crew list.
	IMO0087	Number of passengers	The count of persons on board the ship who are passengers as defined by SOLAS.
•		Any person died	Has any person died on board during the voyage otherwise than as a result of accident?
+		Number of deaths	Total number of deaths
*		Disease on board	Is there on board or has there been during the international voyage any case of disease which you suspect to be of an infectious nature?
*		III persons greater than expected	Has the total number of ill passengers during the voyage been greater than normal/expected?
+		Number of ill persons	Number of ill persons during the voyage
+		III persons now	Is there any ill person on board now?
+		Medical consulted	Was a medical practitioner consulted?
+		Infection condition on board	Are you aware of any condition on board which may lead to infection or spread of disease?
٠		Sanitary measure applied	Has any sanitary measure (e.g. quarantine, isolation, disinfection or decontamination) been applied on board?

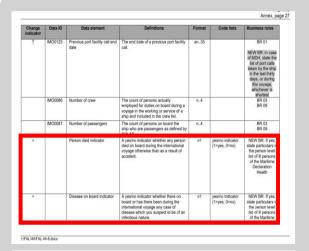
- EGDH: Expert Group on Data Harmonization
- IMO DATA SET RELATED TO THE "MARITIME DECLARATION OF HEALTH"
- Health related data elements were suggested to add on ship/person level

EGDH 1/5; 18 / 37



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Revision on EGDH's Agenda



Change	Data ID	Data element	Definitions	Format	Code lists	Business rules
٠		Infection condition on board indicator	A yes/no indicator whether you are aware of any condition on board which may lead to infection or spread of disease.	n1	yes/no indicator (1=yes, 0=no)	NEW BR: If yes, state particulars in the person level list of ill persons of the Maritime Declaration
•		iii persons greater than expected indicator	A yesino indicator whether the total number of ill passengers during the international voyage been greater than normal/expected.	n1	yesino indicator (1=yes, 0=no)	
٠		III persons now indicator	A yesino indicator whether there is any ill person on board now.	n1	yes/no indicator (1=yes, 0=no)	NEW BR: If yes, state particulars in the person level list of ill persons of the Maritime Declaration Health
*		Medical practitioner consulted indicator	A yesino indicator whether a medical practitioner was consulted.	n1	yes/no indicator (1=yes, 0=no)	NEW BR: If yes, state particulars in the person level list of ill persons of the Maritime Declaration Health

Stating particulars in the person level list of ill persons of the Maritime Declaration Health is requested if the answer is 'yes' to

- 1. Infection on board indicator
- 2. Disease on board indicator
 - 3. Person died indicator
 - 4. Ill persons now indicator
- 5. Medical practitioner consulted indicator

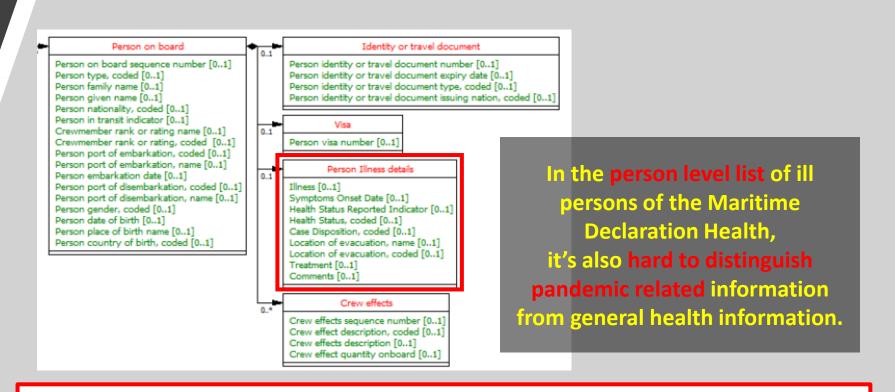
It's hard to distinguish pandemic related information from general health information.

FAL 44/6;



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Revision on EGDH's Agenda



Therefore, incorporating pandemic related health information on the Maritime Single Window Data Set is needed!

FAL 44/6/4/Rev.1; 20 / 37



Expected Outcome Efficient Data Exchange









Implementation

- 1. Amendment
- 2. Implementation



Amendment FAL 44/6 – New Business Rules

	Change indicator	IMO reference	Data element name	Definition	Format	Code lists	Business rules	Change description	Source	
		IMO0206	Person died Indicator	A yes/no indicator whether any person died on board during the international voyage otherwise than as a result of accident.	n1	yes/no indicator (1=yes, 0=no)	BR 26	New Data Element for MDH	EGDH 1-13	
	d <mark>d N</mark> nfect		on board Onditi	On a Onico Oak Cac in Cac of an infectious nature.	ator'	(1=yes, 0=no)	NEW BR	dicator' a Element for MDH	1-13	
I) F	r ye. Rela	11/100200	dition now Head	onally state po the Informatio	l n1	CUIARS, (1=yes, 0-ng). Level lis	In the BR 26 St.	P NROLDO Element for MDH	<u>1-13</u>	
		IMO0210	iviedical practioner consulted indicator	A yes/no indicator whether there is any ill person on board now.	n1	yes/no indicator (1=yes, 0=no)	BR 26	New Data Element for MDH	EGDH 1-13	
	*	IMO0211	Infection condition on board indicator	A yes/no indicator whether you are aware of any condition on board which may lead to infection or spread of disease.	n1	yes/no indicator (1=yes, 0=no)	BR 26 NEW BR	New Data Element for MDH	EGDH 1-13	

FAL 44/6;



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Amendment Compendium – Elements

EX: Incorporated Pandemic Health Information

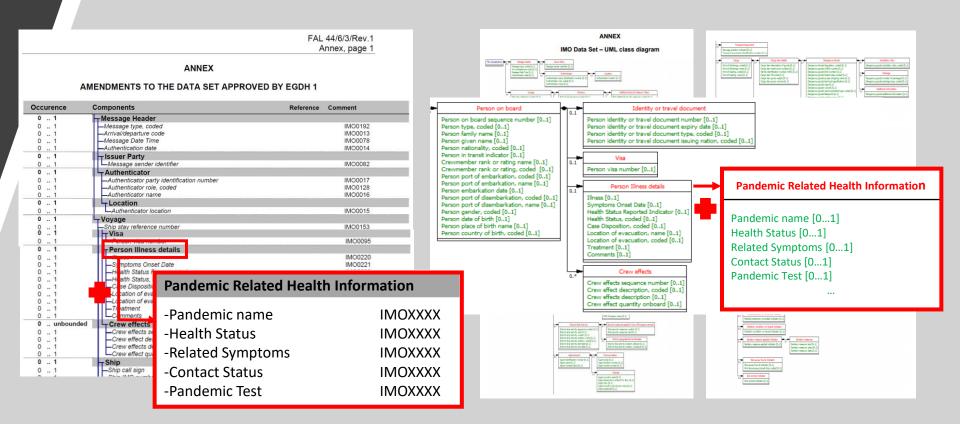
Change Indicator	Data Number	Data Element	Definition
	IMO0220	Illness	Nature of illness.
	IMO0221	Symptoms Onset Date	Date of onset of symptoms.
	IMO0222	Health Status Reported Indicator	A yes/no indicator that the person health status is reported to a port medical officer/ radio medical services.
+	IMOXXXX	Pandemic Name	Name of the pandemic.
+	IMOXXXX	Health Status	Expected to be pandemic or confirmed as pandemic?
+	IMOXXXX	Related Symptoms	Related symptoms to each pandemic such as fever, shortness of breath, coughing, and sudden loss of sense of taste or smell.
+	IMOXXXX	Contact Status	Whether the individual had close contact with someone who had symptoms of following pandemic?
+	IMOXXXX	Pandemic Test	Has the person had a positive following pandemic test?
+			

FAL 44/6/2; 24 / 37



Amendment Compendium – Table, Diagram

Update new data elements on data set and diagram



FAL 44/6/3/Rev.1; FAL 44/6/4/Rev.1; 25 / 3



Amendment Compendium – FAL.5/Circ.41

FAL.5/Circ.41 Annex, page 2

Section 1 Purpose and use

A Purpose

- 1.1 The Compendium on Facilitation and Electronic Business (Compendium) serves as a reference manual for creating and harmonizing the systems needed to support transmission, receipt and response of information required for the arrival, stay and departure of the ship, persons and cargo via electronic data exchange, namely the following declarations:
 - .1 General Declaration;
 - .2 Cargo Declaration;
 - .3 Ship's Stores Declaration;
 - .4 Crew's Effects Declaration;
 - .5 Crew List;
 - .6 Passenger List;
 - .7 Dangerous Goods Manifest;
 - .8 Security-related information as required under SOLAS regulation XI-2/9.2.2; and
 - .9 Advance Notification for Waste Delivery to Port Reception Facilities.
 - Maritime Declaration of Health;
 - + Pandemic Related Health Information;

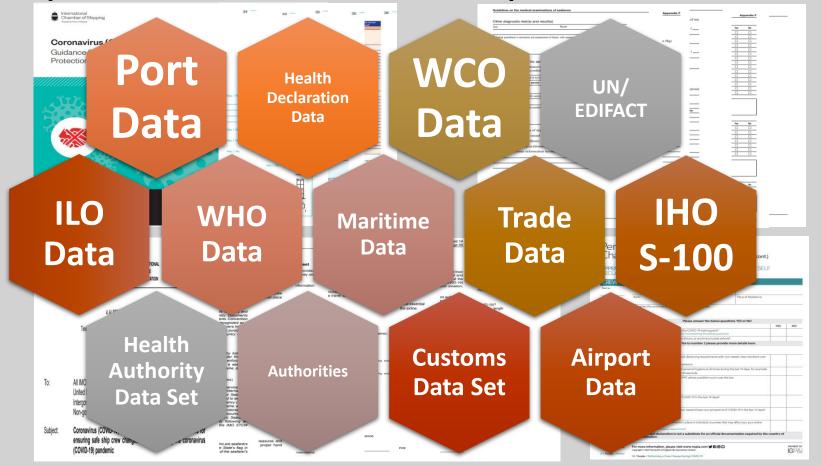
FAL.5/Circ.41;



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Implementation Data Collection & Selection

Step 1: Collection and selection of all pandemic-related data.





Implementation Data Standardization

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Step 2: Data standardization with related organizations.



Chamber of Shipping

Health **Declaration**

Border

Control

ILO

IMO

DATA SET

Port

IMHA

Immigration

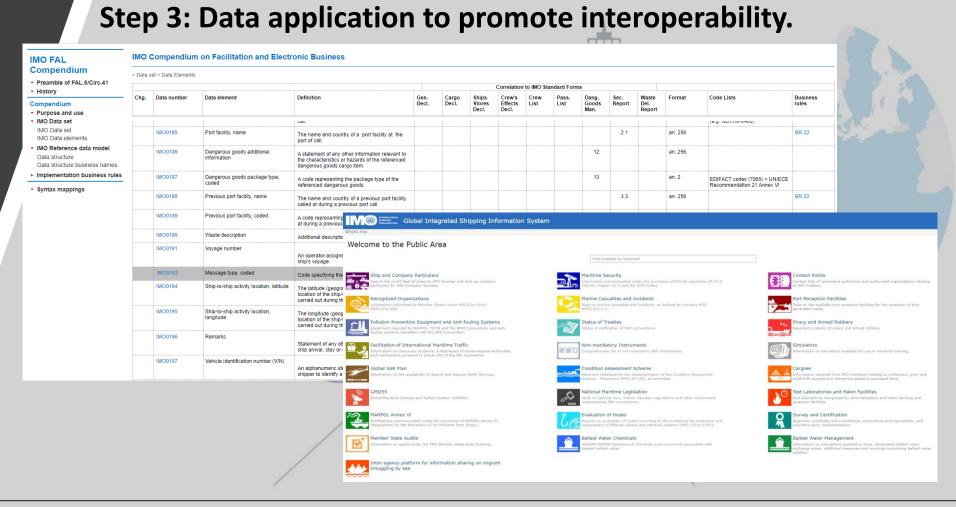
Airport

ICS



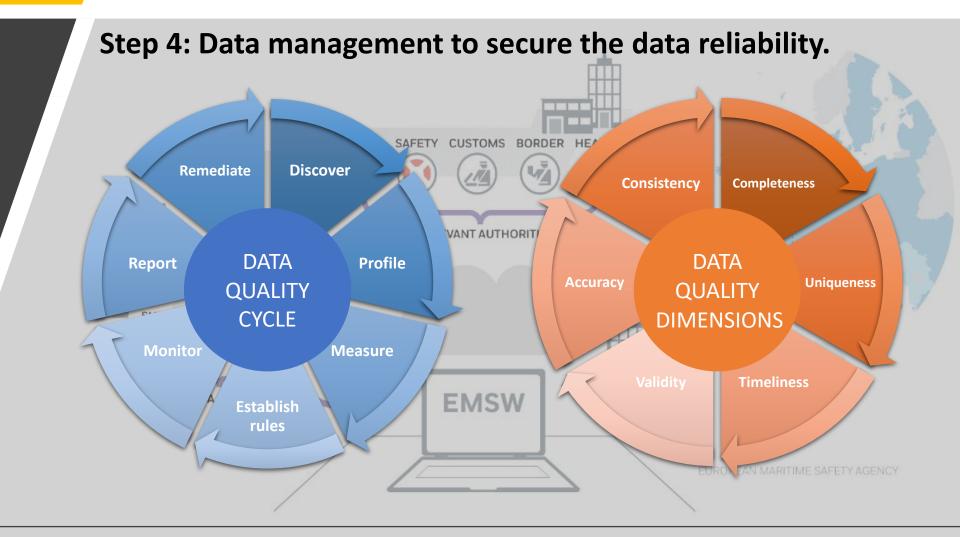


Implementation Data Application





Implementation Data Management





Conclusion

- 1. Urgency
- 2. Action Required



Urgency

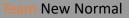
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Overcoming the Pandemic

The ultimate objective of our proposal is always to keep every seafarers safe and secure the global economy. It is urgent that IMO provide efficient and secure ways to carry out their tasks.



Action Required



For Safe and Secure Environment









- A 30/Res.1110 (8 December 2017) STRATEGIC PLAN FOR THE ORGANIZATION FOR THE SIX-YEAR P ERIOD 2018 to 2023 (Secretariat)
- Circular Letter No.4204/Add.10 (22 April 2020) Joint Statement IMO-WHO-ILO on medical certific
 ates of seafarers, ship sanitation certificates and medical care of seafarers in the context of the CO
 VID-19 pandemic
- Circular Letter No.4204/Add.14 (5 May 2020) Coronavirus (COVID-19) Recommended framewor
 k of protocols for ensuring safe ship crew changes and travel during the coronavirus (COVID-19) pa
 ndemic
- Circular Letter No.4204/Add.16 (6 May 2020) Coronavirus (COVID-19) COVID-19 related guidelin es for ensuring a safe shipboard interface between ship and shore-based personnel
- Circular Letter No.4204/Add.17 (21 May 2020) Coronavirus (COVID-19) Preparing for post COVID-19 operations: considerations and practicalities for port community systems, single window and other electronic exchange platforms
- Circular Letter No.4204/Add.20 (5 June 2020) Coronavirus (COVID-19) Accelerating digitalization of maritime trade and logistics – A call to action
- Circular Letter No.4204/Add.29 (4 September 2020) Coronavirus (COVID 19) Communication fr om the Secretary-General regarding the crew change crisis
- Circular Letter No.4204/Add.31 (17 September 2020) Coronavirus (COVID-19) Joint Statement
 on the contribution of international trade and supply chains to a sustainable socio-economic recovery
 ery in COVID-19 times
- Circular Letter No.4204/Add.6 (27 March 2020) Coronavirus (COVID-19) Preliminary list of recommendations for Governments and relevant national authorities on the facilitation of maritime trade during the COVID-19 pandemic
- Circular Letter No.4204/Add.1 (19 February 2020) provides advice on Implementation and enforce ment of relevant IMO instruments
- · Communicating and Managing Uncertainty in the COVID-19 Pandemic: A quick guide (WHO)
- Coronavirus (COVID-19) Guidance for Ship Operators for the Protection of the Health of Seafarers h ttps://www.ics-shipping.org/docs/default-source/resources/COVID-19-guidance-for-ship-operators -for-the-protection-of-the-health-of-seafarers-v2.pdf?sfvrsn=4





- COVID-19 & Impact on Crew Changes https://www.nepia.com/COVID-19-impact-on-crew-changes/
- COVID-19 PROTOCOL ON CREW CHANGE AND REPATRIATION OF SEAFARERS SINGAPORE CREW CH ANGE GUIDEBOOK (Singapore Shipping Association)
- Crew changes: A humanitarian, safety and economic crisis http://www.imo.org/en/MediaCentre/H otTopics/Pages/FAQ-on-crew-changes-and-repatriation-of-seafarers.aspx
- Crew shift limit is imminent, the International Maritime Organizations mandatory employee design ated one voice https://www.ksg.co.kr/news/main_newsView.jsp?pNum=126843
- EGDH 1/5 (4 October 2019) IMO DATA SET RELATED TO THE "MARITIMEDECLARATION OF HEALT
- FAL 44/6 (17 January 2020) REVIEW AND REVISION OF THE IMO COMPENDIUM ON FACILITATION AND ELECTRONIC BUSINESS, INCLUDING ADDITIONAL E-BUSINESS SOLUTIONS Report of the first m eeting of the Expert Group on Data Harmonization (EGDH)
- FAL 44/6/2 (11 February 2020) REVIEW AND REVISION OF THE IMO COMPENDIUM ON FACILITATI
 ON AND ELECTRONIC BUSINESS, INCLUDING ADDITIONAL E-BUSINESS SOLUTIONS Revised UML cla
 ss diagram based on the decisions of EGDH1
- FAL 44/6/3/Rev.1 (2 March 2020) REVIEW AND REVISION OF THE IMO COMPENDIUM ON FACILIT ATION AND ELECTRONIC BUSINESS, INCLUDING ADDITIONAL E-BUSINESS SOLUTIONS Revised data structure report based on the decisions of EGDH1
- FAL 44/6/4/Rev.1 (2 March 2020) REVIEW AND REVISION OF THE IMO COMPENDIUM ON FACILITY
 ATION AND ELECTRONIC BUSINESS, INCLUDING ADDITIONAL E-BUSINESS SOLUTIONS Revised UML
 class diagram based on the decisions of EGDH1
- FAL.5/Circ.41 (16 May 2019) Revised IMO Compendium on Facilitation and Electronic Business
- Guidelines on the medical examinations of seafarers http://www.ilo.int/wcmsp5/groups/public/--ed_dialogue/---sector/documents/normativeinstrument/wcms_174794.pdf
- Guidelines on the medical examinations of seafarers https://www.ics-shipping.org/docs/default-so urce/ILO-MLC-docs/ilo-imo-guidelines-on-the-medical-examinations-of-seafarers.pdf?sfvrsn=4
- http://www.imo.org/en/MediaCentre/PressBriefings/Pages/15-crew-changes-.aspx







- http://www.tradenewswire.net/covid-19-essential-workers-nimasa-unveils-guidelines-forterminals-jetties-excepts-dockworkers-seafarers-from-travel-restrictions/;
- https://gcaptain.com/wakashio-oil-spill-was-the-mauritian-government-unprepared/
- https://gisis.imo.org/Public/Default.aspx; https://svn.gefeg.com/svn/IMO-Compendium/Current/index.htm
- https://journal.uptimeinstitute.com/covid-19-2020-organizations-move-from-planning-toimplementation/
- https://revenue-hub.com/new-travel-restrictions-and-uncertainty-keep-markets-down/
- https://www.gtd.es/en/news-and-events/gtd-builds-future-it-service-center-portnet-morocco;
- https://www.imo.org/en/MediaCentre/HotTopics/Pages/FAQ-on-crew-changes-and-repatriation-of-seafarers.aspx https://revenue-hub.com/new-travel-restrictions-and-uncertainty-keep-markets-down/
- https://www.imo.org/en/MediaCentre/PressBriefings/Pages/06-electronic-informationexchange-.aspx;
- https://www.maritime-executive.com/article/singapore-works-with-shipping-to-solve-the-crew-change-challenge
- https://www.mentalhealthexcellence.org/embracing-the-uncertainties/
- https://www.railfreight.com/policy/2020/02/26/eu-considers-single-window-for-railfreight/?gdpr=accept
- https://www.tradewindsnews.com/ship-management/anglo-eastern-completes-largest-single-crew-change-in-india/2-1-816688;
- Sailors trapped in the sea with a corona around the world 200,000 people, "For more than a
 year can not go home, it reached extreme
 stress." https://biz.chosun.com/site/data/html dir/2020/09/23/2020092302783.html
- What is COVID-19? https://www.who.int/emergencies/diseases/novel-coronavirus-2019/question-and-answers-hub/q-a-detail/q-a-coronaviruses#:~:text=symptoms



