



**Italian Coast Guard**

# **EMSA**

## **Training on ISM Simulated Audit for Passenger Ships**

### **A quick walk through the ISM Code**

Andrea Cicotto  
**Italian Coast Guard**

Lisbon, 03 – 04 March 2015



## WHY ISM?

### Poor Management Standards in shipping



**Herald of Free Enterprise 1987**



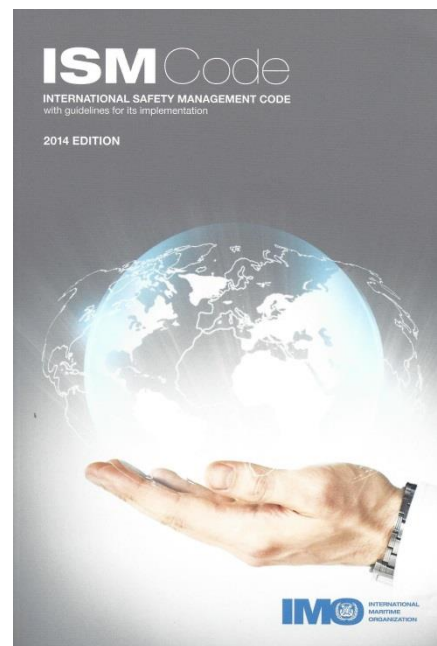
**Exxon Valdez 1989**



**Scandinavian Star 1990**



**ESTONIA 1995**



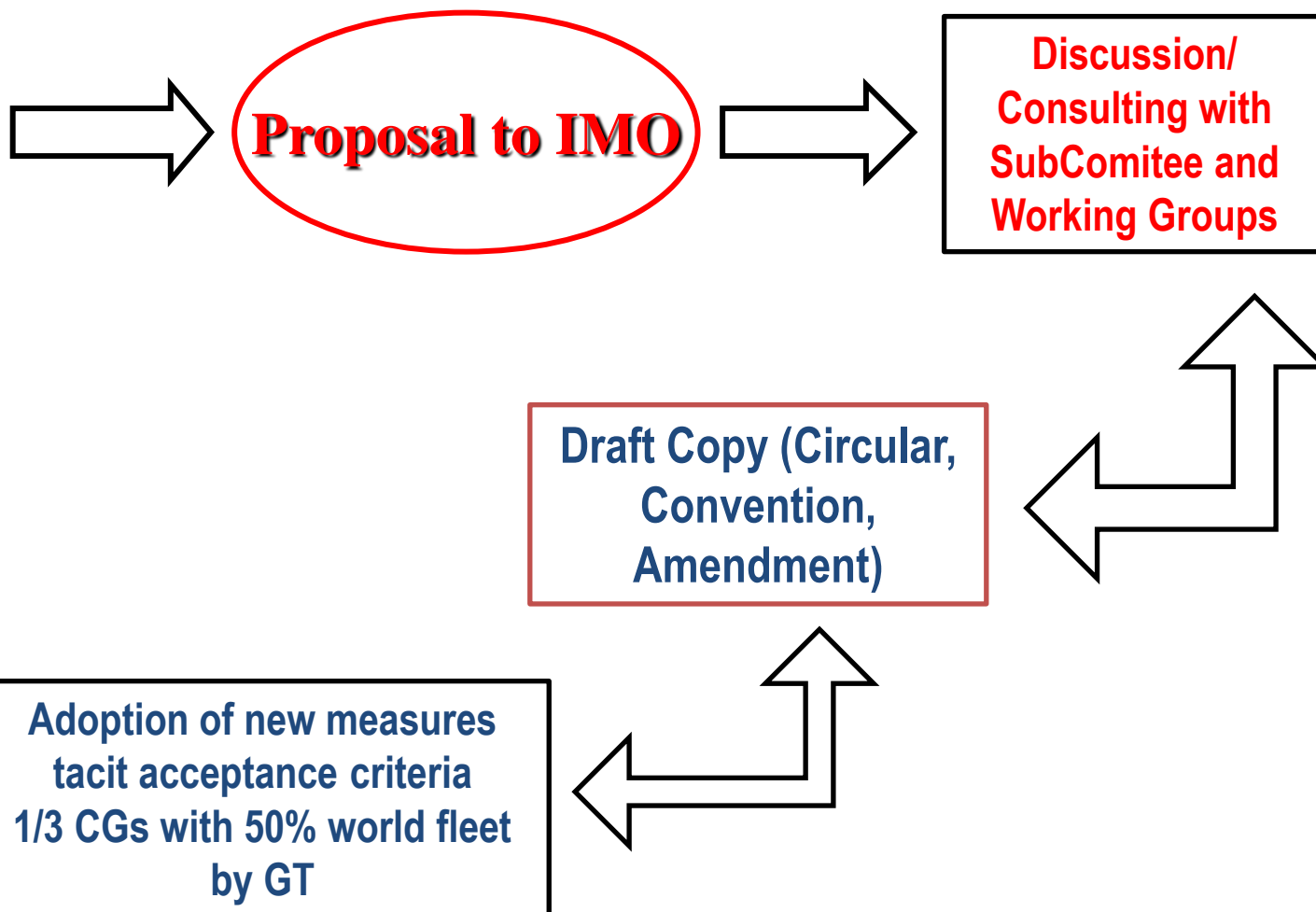


**Italian Coast Guard**





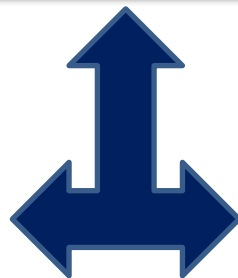
## Maritime Rules Management..





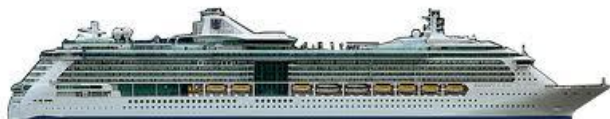
## Maritime Regulations ...

**80%**  
**Technical - related**

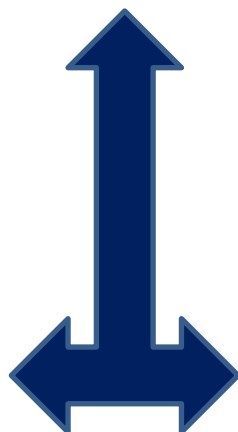


**20%**  
**Human - related**

**...but..when accidents occur...**



**20%**  
**Technical - related**



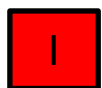
**80%**  
**Human - related**





## What is the ISM ?

**INTERNATIONAL MANAGEMENT CODE FOR THE SAFE OPERATION OF SHIPS AND FOR POLLUTION PREVENTION**



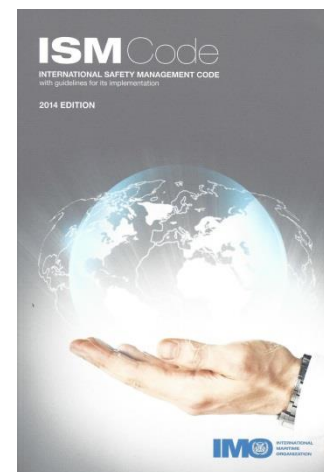
**International**



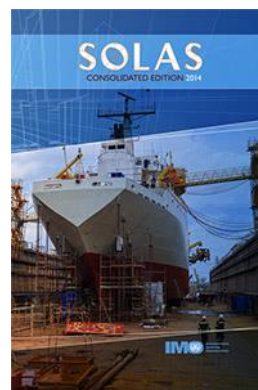
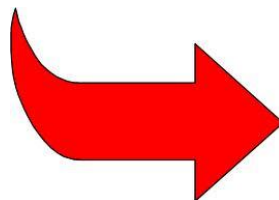
**Safety**



**Management**



**IMO  
Resolution  
A.741(18)**



**Chapter  
IX**



The introduction of the ISM Code in the 1990s was an attempt of CGs to create a ...

## SAFETY CULTURE



**Internal Management of Safety (self regulation)**



**Each one is responsible for every action taken to improve safety (sea/ashore)**



**Continuous improvement of standards (training, knowledge, etc)**



**Full compliance with Rules and Regulations**

**COMMITMENT  
FROM THE TOP**



## Part A - Implementation

1 General

2 Safety and environmental protection policy

3 Company responsibilities and authority

4 Designated person (s)

5 Master's responsibility and authority

6 Resources and personnel

7 Shipboard operations

8 Emergency preparedness

9 Report and analysis of non-conformities, accidents and hazardous occurrences

## The ISM Code is divided into two parts:

10 Maintenance of the ship and equipment

11 Documentation

12 Company verification, review and evaluation

## Part B – Certification and Verification

13 Certification and periodical verification

14 Interim certification

15 Verification

16 Forms of certificates



## International Management Code for Safe Operation of ships and for Pollution Prevention



It is a management code **based** on Human element and relations between shore and ship personnel



Highlight the importance of relationship between highest level of management and ship's crew



Specify objectives but not the way to reach them



Based on ISO 9000 philosophy

**1.7.1998**



Under SOLAS Chapter IX, Code applies to:

to **ships**, regardless of the date of construction, as follows:

- ✓ passenger ships including passenger high speed craft;
- ✓ oil tankers, chemical tankers, gas carriers, bulk carriers and cargo high speed craft of 500 gross tonnage and upwards;
- ✓ other cargo ships and mobile offshore drilling units of 500 gross tonnage and upwards;

to **Companies** which have the responsibility for operation of the above ship



Under EU Regulation 336/2006, Code applies to:

to **ships and to Companies** operating:

- ✓ Cargo ships and Passenger ships, flying the flag of a Member State, engaged on international voyages,
- ✓ Cargo ship and passenger ships engaged exclusively on domestic voyages, regardless of their flag,
- ✓ Cargo ships and passenger ships operating to or from ports of the Member States, on a regular shipping service, regardless of their flag,
- ✓ MODU operating under the authority of a Member State.



ISM 1.2.1

- 1** to ensure safety at sea
- 2** prevention of human injury or loss of life, and
- 3** avoidance of damage to the environment, in particular to the marine environment and to property.



## The Safety Management System should ensure:

- ✓ compliance with mandatory rules and regulations; and
- ✓ that applicable codes, guidelines and standards recommended by the Organization, Administrations, classification societies and maritime industry organizations are taken into account.



**IACS**

INTERNATIONAL ASSOCIATION OF CLASSIFICATION SOCIETIES LTD.



**INTERTANKO**

E  
X  
A  
M  
P  
L  
E  
S



## Safety Management System



**POLICY** – WHAT Company wants

**SYSTEM** – HOW organize and control

**PROCEDURES** – WHO does, WHAT and WHEN

**INSTRUCTIONS** – HOW to do...

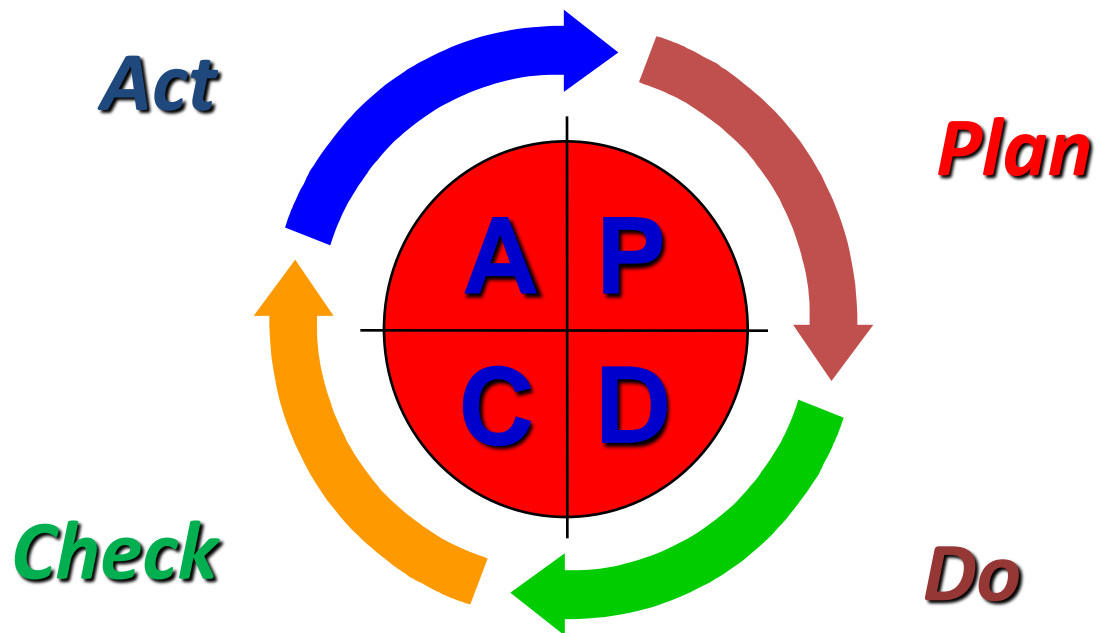
*..not a rigid system... or docs management only.....*  
**IT MUST BE A SAFETY CULTURE**







## Basically



*Deming cycle - based philosophy*

**Yes!**



## An ideal ISM looks like this...

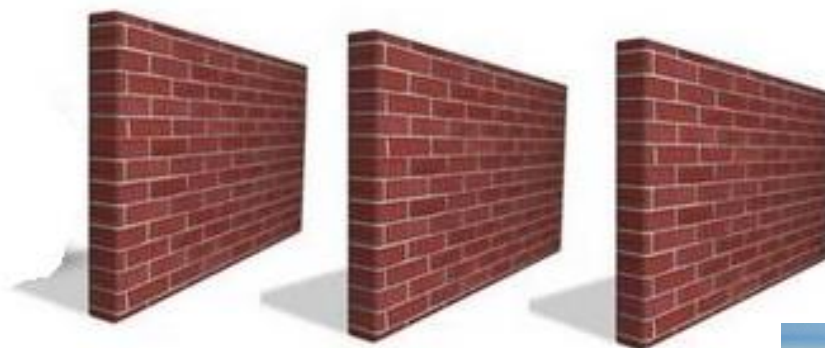
Someone tells me



System

Procedures

Instructions

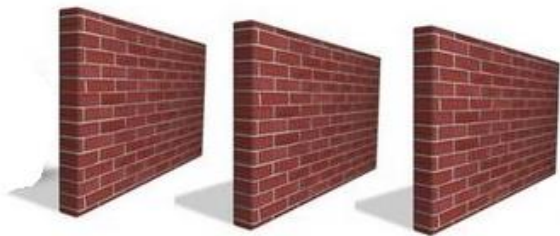


The Company develops layers of defence between the hazards and people/properties at risk



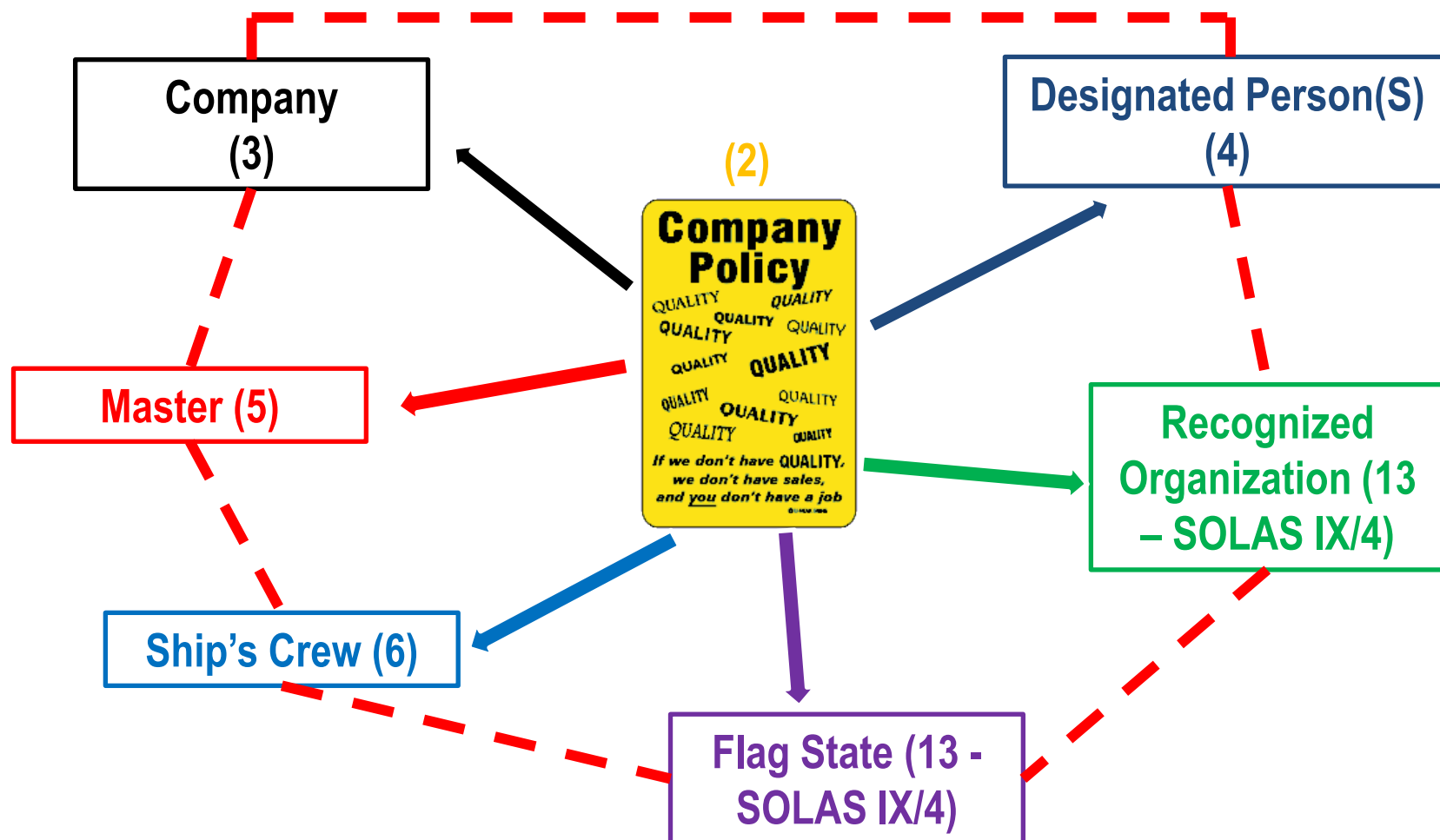
**...but sometimes....**

**..the reality is more like this  
and some holes in the  
barriers could lead to an  
accident**



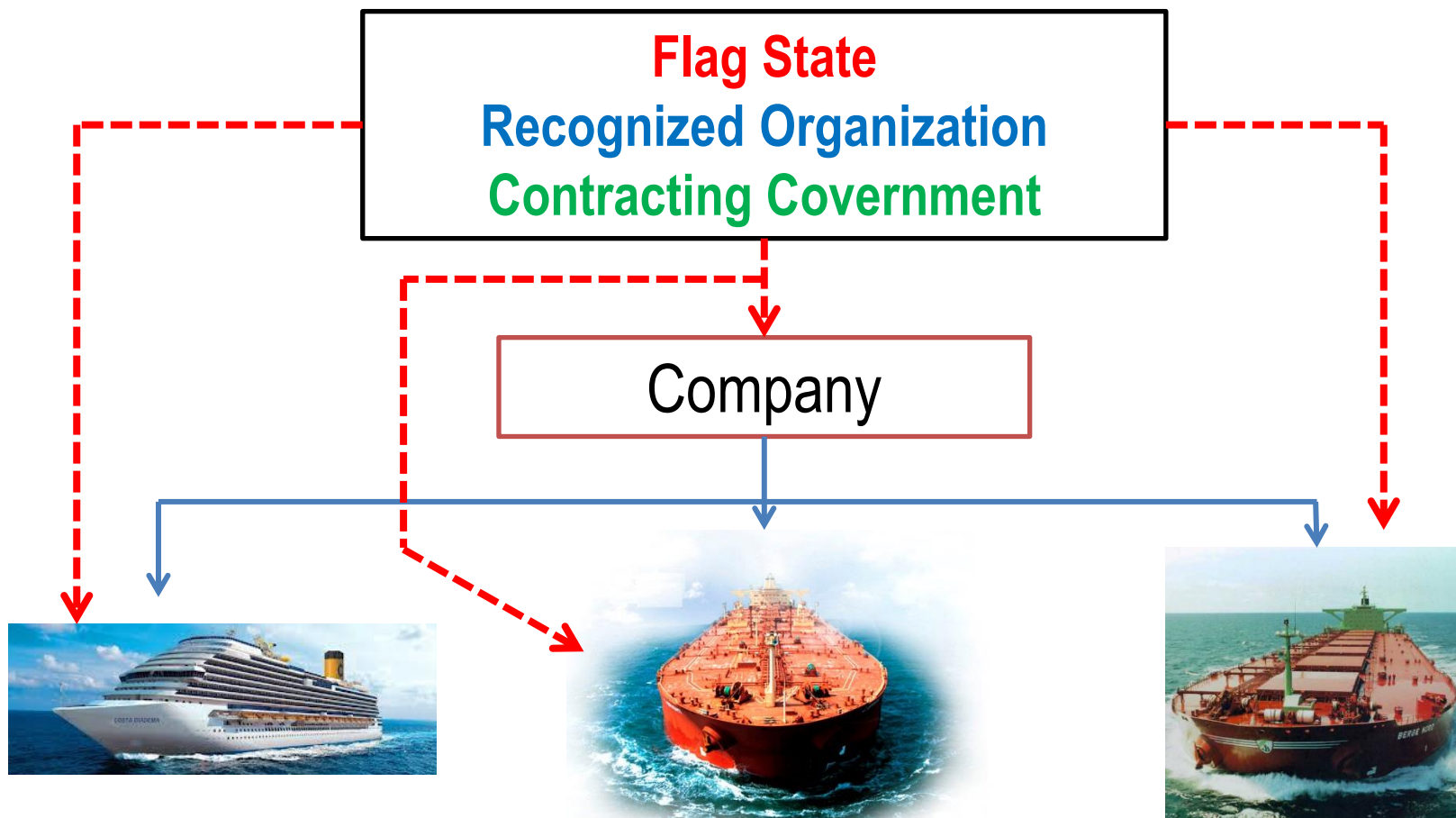


## ISM - KEY figures





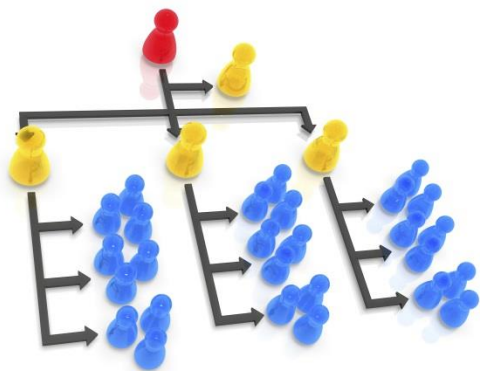
## Parties involved in ISM Certification:





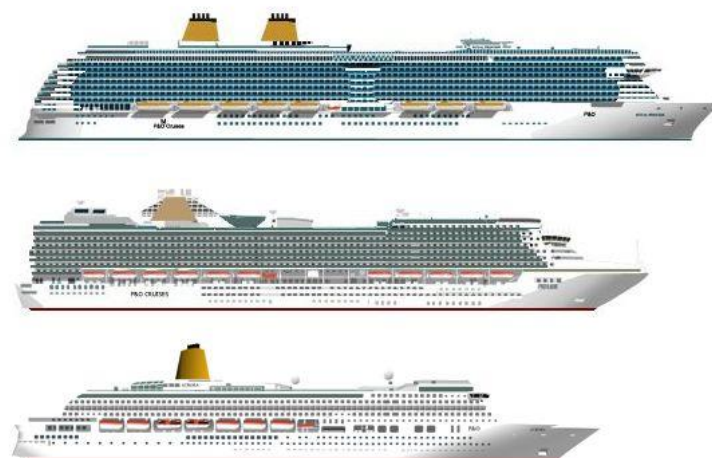
## Certification:

**DOC** – Document Of Compliance



**Company**

**SMC** – Safety Management Certificate

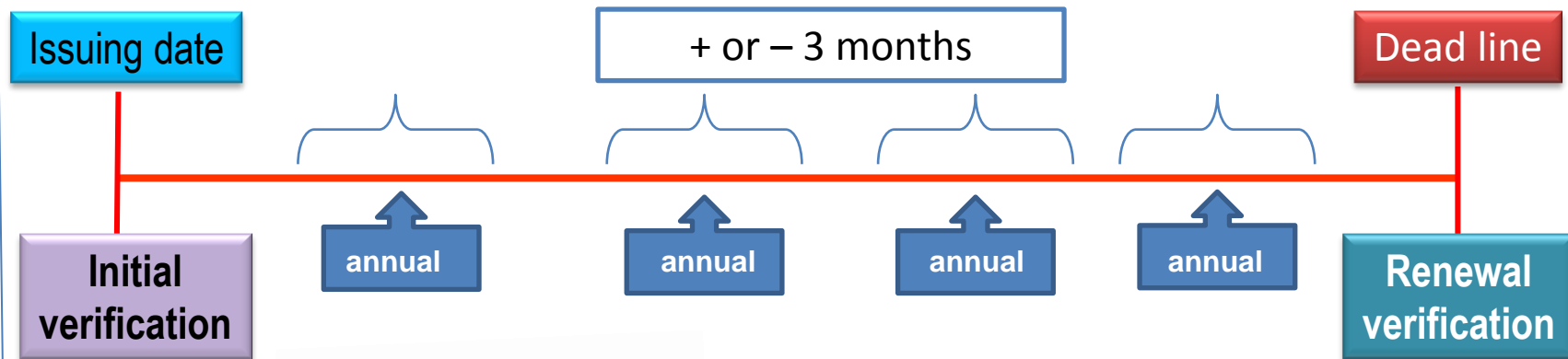


**Ships**





## Document Of Compliance



**REPUBLICA ITALIANA**  
REPUBLIC OF ITALY  
**MINISTERO DELLE INFRASTRUTTURE E DEI TRASPORTI**  
Ministry of Infrastructures and Transport  
**Autorità Marittima di Genova**  
Local Maritime Authority Genova  
**DOCUMENTO DI CONFORMITA'**  
DOCUMENT OF COMPLIANCE

Rilasciato a norma delle disposizioni della Convenzione internazionale per la salvaguardia della vita umana in mare del 1974 e successive modificazioni in nome del Governo della Repubblica Italiana  
Issued under the provisions of the International Convention for the Safety of Life at Sea, 1974, as amended under the authority of the Government of Italy

Denominazione e sede della società di navigazione Name and address of Company	COSTA CROCIERE S.p.A. Pozzo Rossese, 18 11051 - GENOVA (ITALY)
Numero di identificazione della Società Company identification number	0196718

Si ATTESTA che il sistema di gestione della sicurezza della società di navigazione è stato sottoposto a verifica e che essa soddisfa alle prescrizioni del Codice internazionale di gestione della sicurezza delle navi e della prevenzione dell'inquinamento (Codice ISM) per i tipi di nave sotto indicati.  
This IS TO CERTIFY that the safety management system of the Company has been audited and that it complies with the requirements of the International Management Code for the Safe Operation of Ships and for Pollution Prevention (ISM Code) for the types of ships listed below:

Nave passeggeri - Passenger ship

Il presente Documento di Conformità è valido fino al 12/01/2016 e condizione che siano effettuate le verifiche periodiche.  
This Document of Compliance is valid until: 12/01/2016, subject to periodic verification.

Data di completamento della verifica sulla quale si basa il presente certificato: 13/12/2012  
Completion date of the verification on which this certificate is based:

Rilasciato a GENOVA  
Issued at

il 10/12/2012  
Date of issue

Timbro: L'Ufficiale autorizzato al rilascio del certificato  
Seal: Authorized official issuing the certificate

\*Vedere paragrafo 1.1.2. del Codice ISM.  
See paragraph 1.1.2 of the ISM Code.  
\*Cautela non approvata.  
Do not accept.

**SOLAS:** Chap. IX Reg. 4.1

**ISM Code:** Chap. 13

**EU 336/2006:** Art. 8



## Safety Management Certificate

Issuing date

Between the 2° and 3° anniversary date

Dead line

Initial  
verification



Renewal  
verification

REPUBLICA ITALIANA  
REPUBLIC OF ITALY

MINISTERO DELLE INFRASTRUTTURE E DEI TRASPORTI  
Ministry of Infrastructures and Transport

Autorità Marittima di Savona  
Local Maritime Authority

CERTIFICATO DI GESTIONE DELLA SICUREZZA  
SAFETY MANAGEMENT CERTIFICATE

Rilasciato a norma delle disposizioni della Convenzione internazionale per la salvaguardia della vita umana in mare del 1974 e successive modificazioni in nome del Governo della Repubblica Italiana  
Issued under the provisions of the International Convention for the Safety of Life at Sea, 1974, as amended, under the authority of the Government of Republic of Italy

Nome della nave: Name of ship		COSTA neoROMANTICA	
Porto di registrazione: Port of registry		Genova	
Nominativo internazionale: Collective number or letters	IBCR	Stazza lorda: Gross tonnage	56769.00
Numero IMO: IMO Number	8821046	Tipo di nave (1): Type of ship	nave passeggeri passenger ship
Denominazione e sede della società (2): Name and address of Company		Costa Crociere S.p.A., Piazza Piccapietra, 48, GENOVA	
Numero di identificazione della Società: Company identification number		0196718	

Si ATTESTA che il sistema di gestione della sicurezza della nave è stato sottoposto a verifica e che esso soddisfa alle prescrizioni del Codice internazionale di gestione della sicurezza delle navi e della prevenzione dell'inquinamento (Codice ISM), essendo stato verificato che il documento di conformità della società di navigazione si applica a questo tipo di nave.

THIS IS TO CERTIFY THAT the safety management system of the Ship has been audited and that it complies with the requirements of the International Management Code for the Safe Operation of Ships and for Pollution Prevention (ISM Code) following verification that the Document of Compliance for the Company is applicable to this type of ship.

Data di completamento della verifica sulla quale si basa il presente certificato  
Completion date of the verification on which this certificate is based: 23/02/2013

Il presente Certificato di Gestione Sicurezza è valido fino al 26/04/2018 a condizione che siano effettuate le verifiche periodiche e che il Documento di Conformità non sia scaduto.  
This Safety Management Certificate is valid until 26/04/2018 subject to periodical verification and the validity of the Document of Compliance.

Rilasciato a Savona  
Issued at: 24/02/2013

Timbro  
Stamp

C.F. (CP) Leonardo DEIR

1. Indicare il tipo di nave tra i seguenti tipi: nave passeggeri, unità veloce passeggeri, unità veloce da carico, portacontainer, petroliera, chinciariera, gascara, unità mobile di perforazione offshore, nave da carico di altro tipo.  
Insert the type of ship from among the following: passenger ship, passenger high-speed craft, cargo high-speed craft, bulk carrier, oil tanker, chemical tanker, gas carrier, mobile offshore drilling unit, other cargo ship.

2. Vedere paragrafi 1.1.2 del Codice ISM.  
See paragraph 1.1.2 of the ISM Code.

**SOLAS:** Chap. IX Reg. 4.3

**ISM Code:** Chap. 13

**EU 336/2006:** Art. 8





## Interim Document of Compliance

12 months

- ✓ a company is newly established or
- ✓ new ship types are to be added to an existing DOC

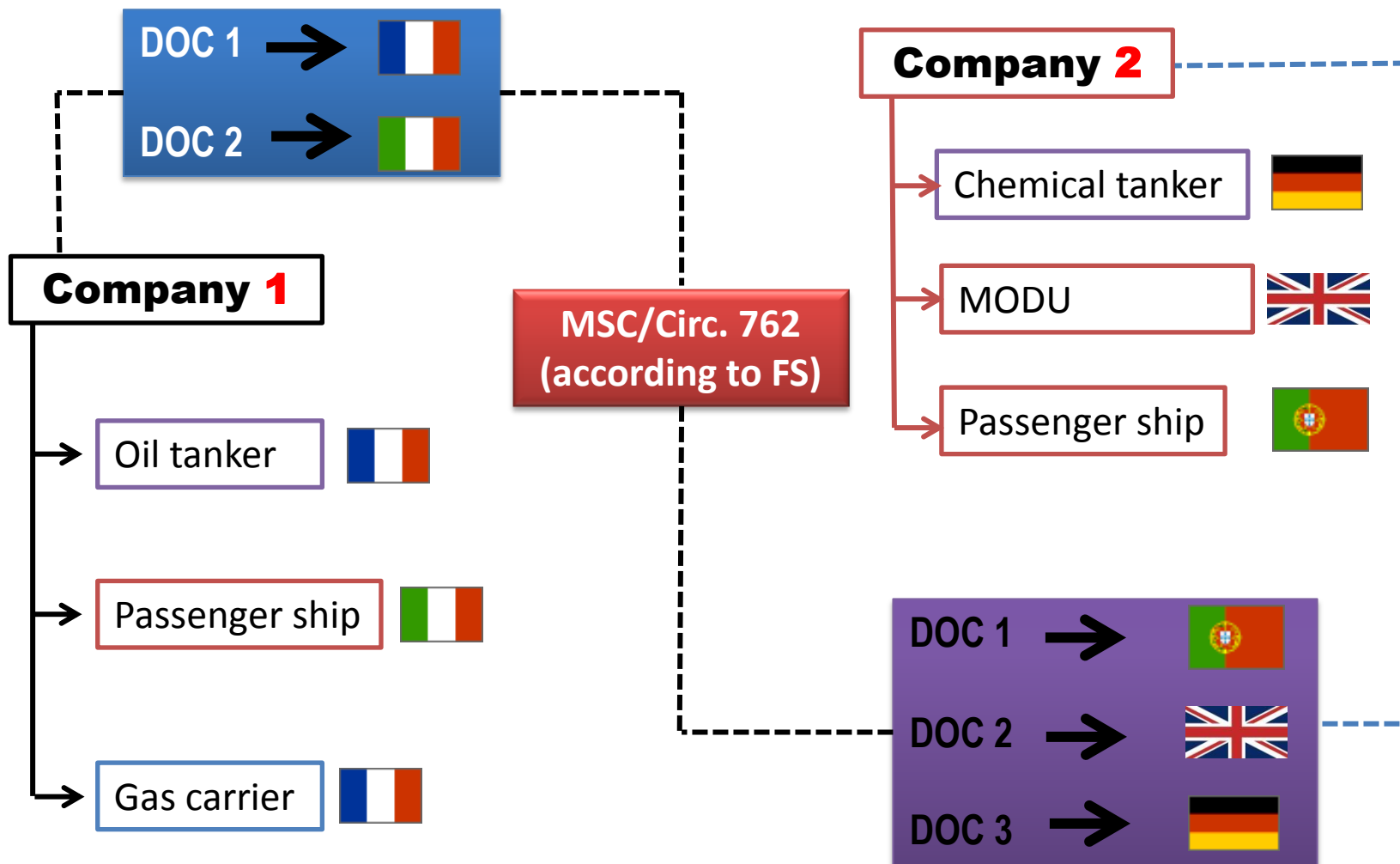
## Interim Safety Management Certificate

6 + 6 months

- to new ships on delivery;
- when a Company takes on responsibility for the operation of a ship which is new to the Company; or
- when a ship changes flag.



# Italian Coast Guard





## What PSCOs think about ISM code?

Action Taken: 18

Internal safety audit and corrective action is required within 3 months. Deficiency(s) marked (ISM) is (are) objective evidence of a failure, or lack of effectiveness, of the implementation of the ISM Code.

AVOID PROBLEMS – RUN A  
SAFE AND SECURE SHIP AND  
BE HONEST WITH PORT STATE  
CONTROL OFFICERS



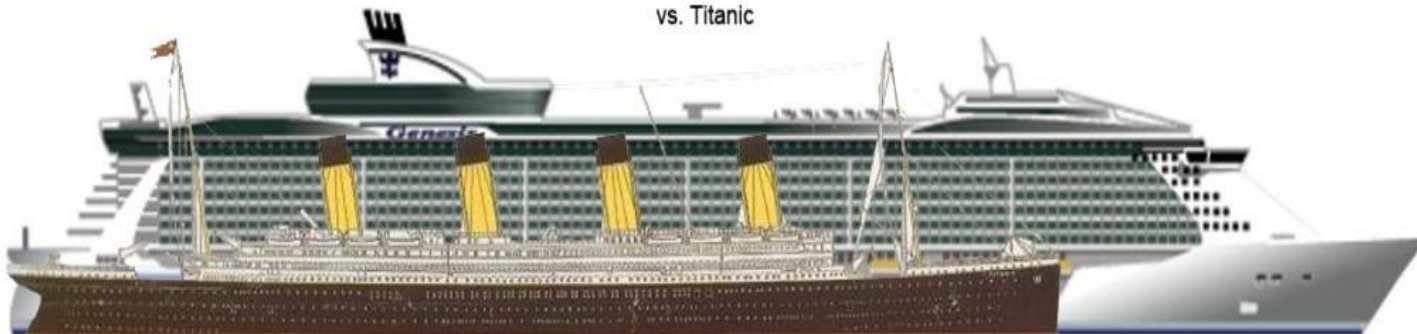
Action Taken: 17 (D) ex 19

Safety management audit by the Administration is required before departure of the ship. Deficiency(s) marked (ISM) is (are) objective evidence of a serious failure, or lack of effectiveness, of the implementation of the ISM Code.

**Deficiency code: 15150**



Oasis Of The Seas  
vs. Titanic



4400 Persons on board

3100 separate compartments

9 fire zones

15 kilometres of corridors

500 monitored fire doors

700 fire extinguishers

1000 fire dampers

8000 fire detectors

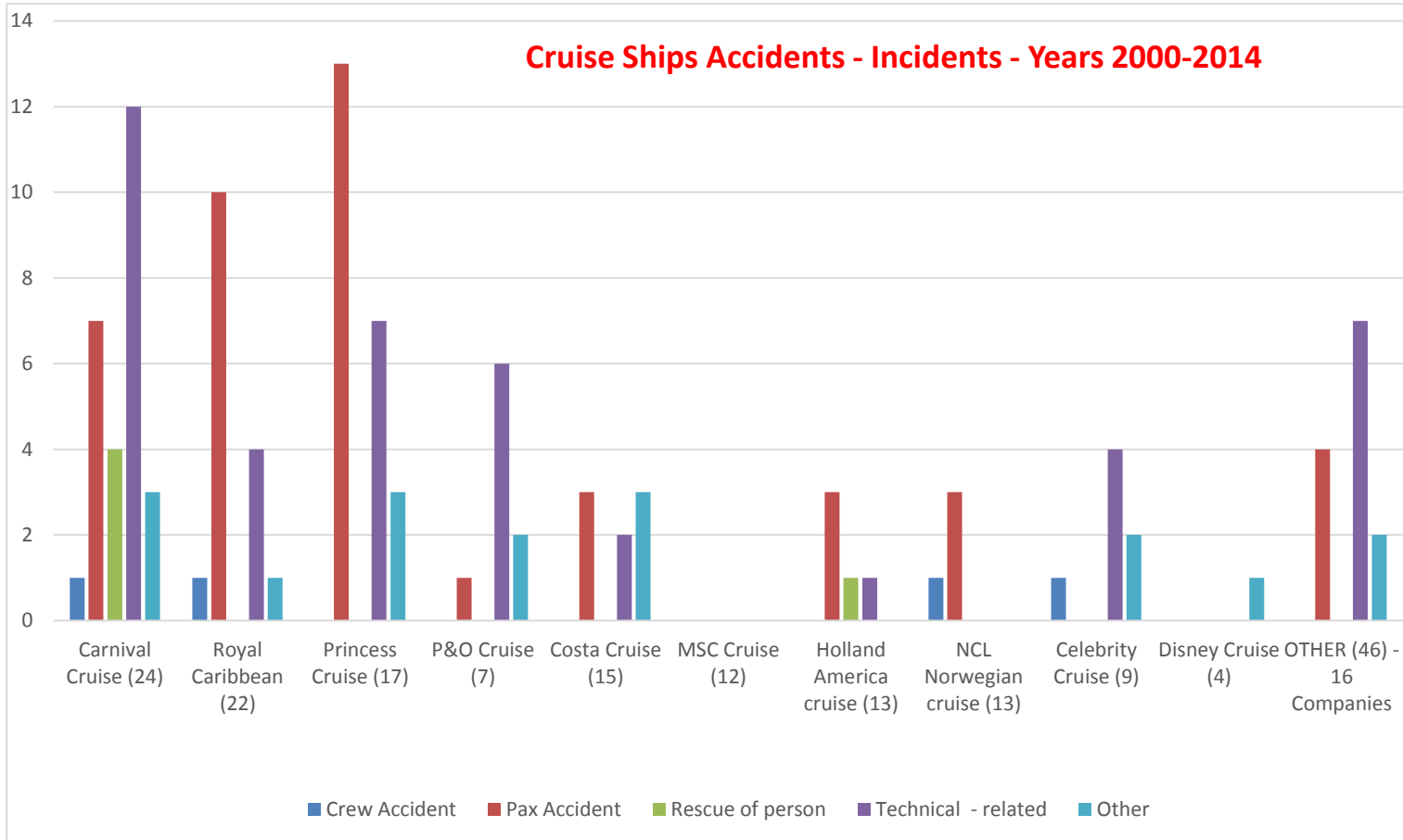
10000 water mist heads

**International Safety  
Management (ISM)**





## Cruise Ships Accidents - Incidents - Years 2000-2014



**disaster** (sunk, run aground, collision)

**mechanical problems** (fire, smoke, propulsion problems)

**crew or passenger injury** (including rape, assault, fall from dock)

**illness outbreak** (GI/GastroIntestinal, other sickness issues)

**crew, worker/passenger death** (jump overboard, drowning in main pool, suicide)

**other** (crime/robbery, pollution, weather/storm causing itinerary change/delays)

## Previous statistics depend of some variable factors like:



Number of ships for Company;



Entity of the Incident/Accident (time);



Report to FS/RO/IMO;



Age of ship, Engine type, Dimensions, etc.





**Italian Coast Guard**



**Thank you for  
listening!**

**Andrea CICOTTO**  
**Italian Coast Guard**  
Cagliari District Office

[andrea.cicotto@mit.gov.it](mailto:andrea.cicotto@mit.gov.it)