

**BULK TERMINALS RIGA 2022** 

REGISTBATION AND DETAILS CLICK HERE

OF BULK TERMINAL OPERATORS (ABTO)

port and terminals: anticipating risks and creating safety agile workplaces ABTO Webinar

12 October 2022 (virtual)

Richard Steele CEO, ICHCA <u>www.ichca.com</u>

#### Agenda

- Introduction to ICHCA
- anticipating risks learning from fatalities and incidents
- five factors for designing a safe workplace



# introduction to ICHCA

# anticipating risks:

learning from incidents



#### managing risks

Asphyxiation/Confined Spaces



Caught between objects

Crush (e.g. by cargo)

Driving related - collisions

Electricity/electrical discharge

Explosion

Fall from Height

Fire

Handling, lifting or carrying



Hit by moving, flying/falling object

Hit fixed or stationary object

Moving machinery/material

Physically assaulted by a person

Slips, trips, falls on level

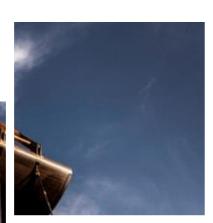
**Toxic Exposure** 

Trapped by something collapsing

Water/Drowning



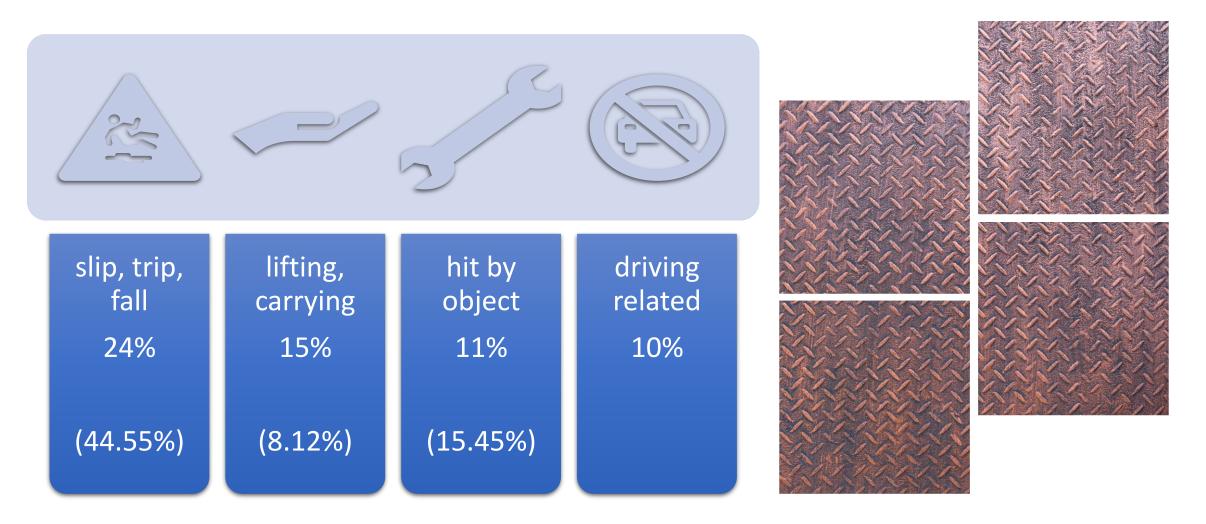






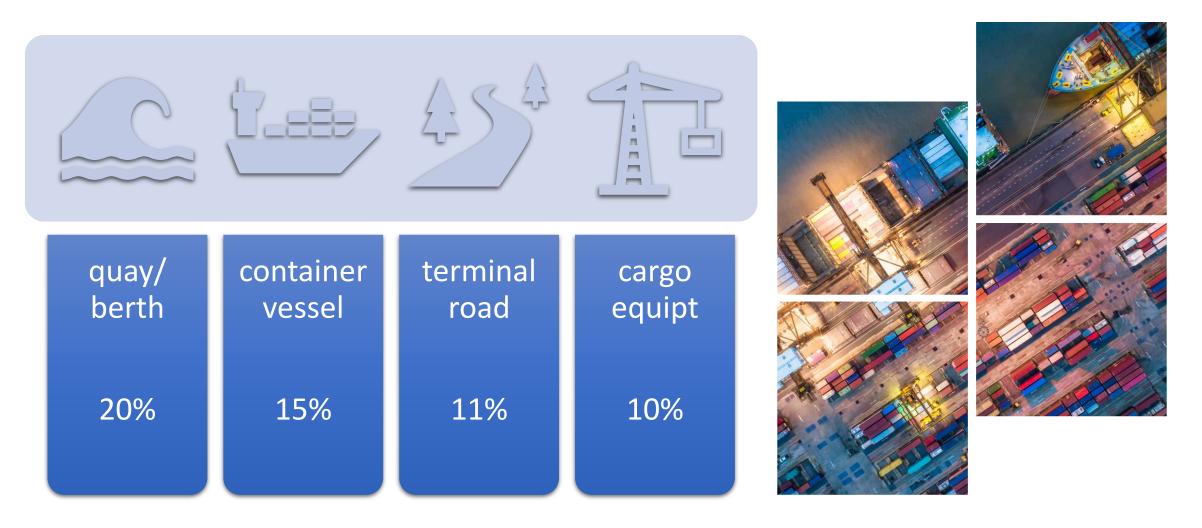


#### higher frequency/lower impact incidents



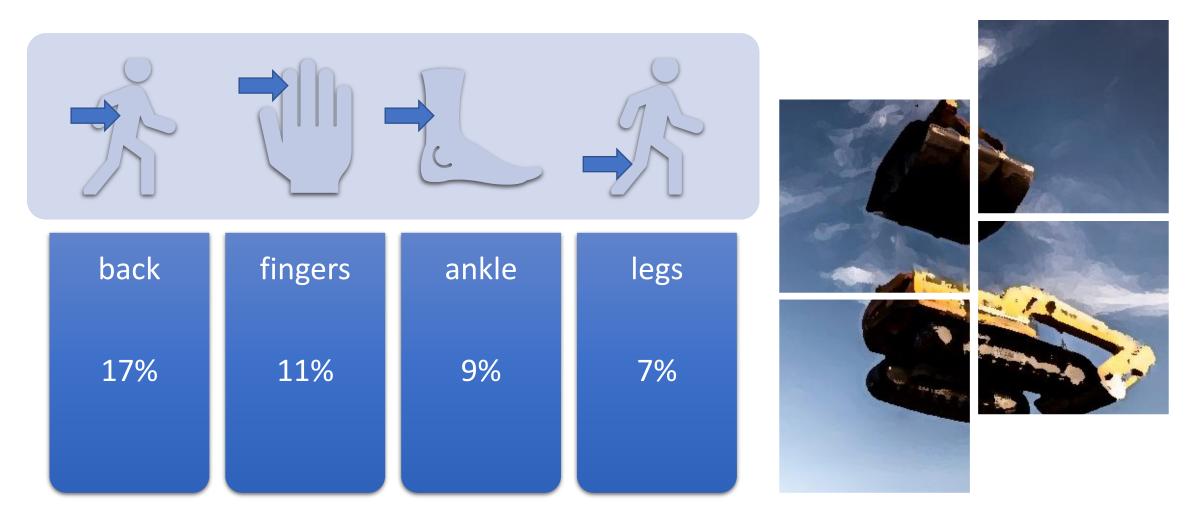


#### location





#### body part



# anticipating risks:

## learning from fatalities



#### sources

Antiles and Barbados Australia ATSB Blueoceana Chile **Container News** Cyprus Denmark Germany Hong Kong MAIB HSE IOM Latvia Liberia MAI Hong Kong MAIB Malta

MCIB Nautical institute Netherlands NOR NMD Norway AIBN RMI SAMSA Ships and Ports Sweden The Sweedish Club Transport Malta Marine Safety Investigation Unit UK MAIB US Coast guard Vanuatu







#### countries









Total Injuries 230



#### dataset warning



- some countries make more info public
- different population sizes
- different numbers and scales of ports
- press releases vs investigation reports
- some data targeted e.g. asphyxia
- choices vehicle hits a stack which falls on a person is it vehicle strike, crush or struck?

#### absence of evidence is NOT evidence of absence

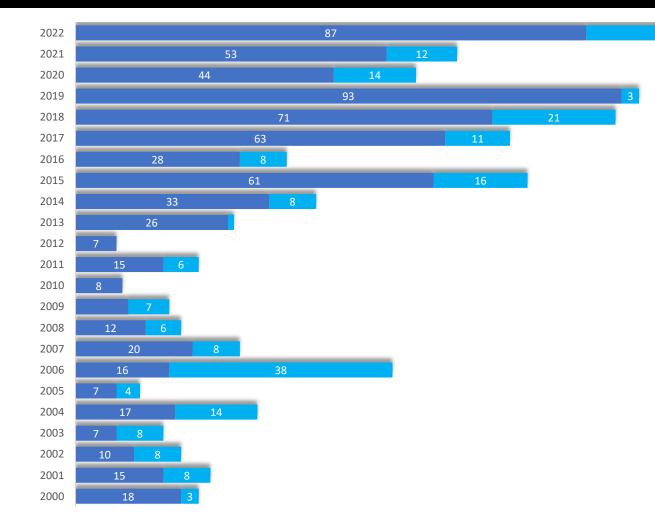


#### dataset warning













#### distribution

# Shore Personnel Fatalities 53%

Crew Fatalities 47%

#### Crew Injuries 54%

#### Shore Personnel Injuries 46%



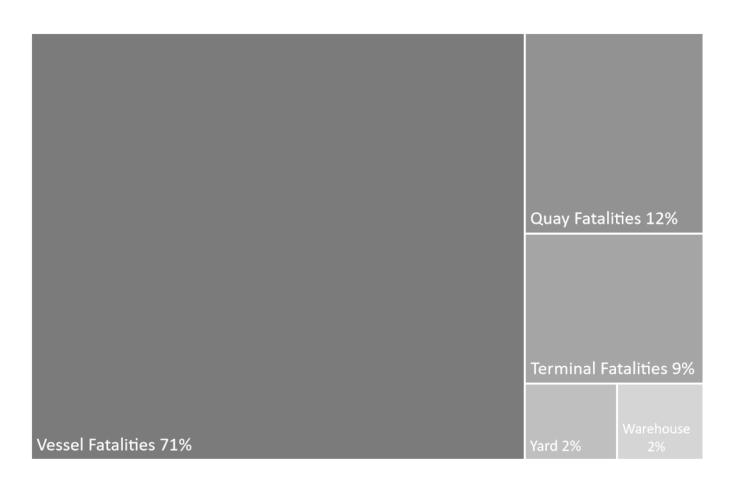








#### location







#### vessel fatalities distribution





#### cargo type

		Wood 8%	
	Not Known 22%	RoRo 3	Bulk Liquid % 3%
Bulk Solid 33%	Container 16%	Passen	Steel 3% General



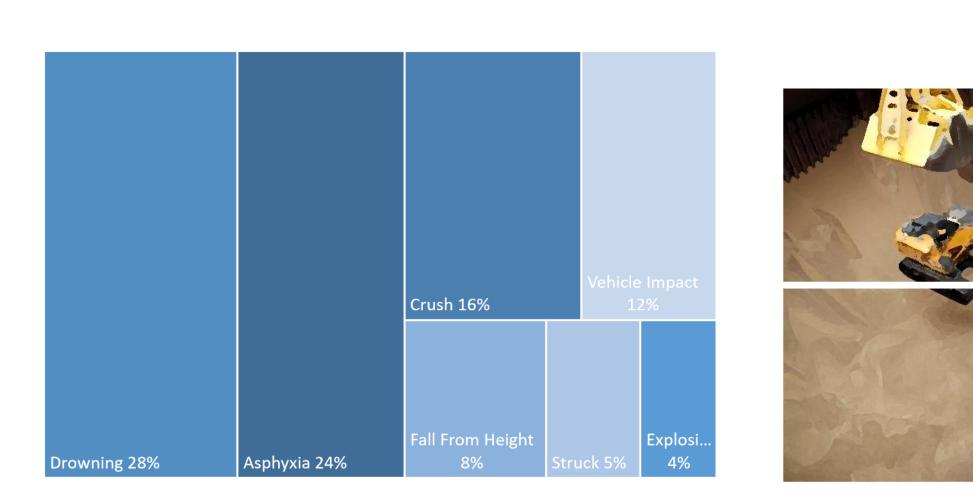








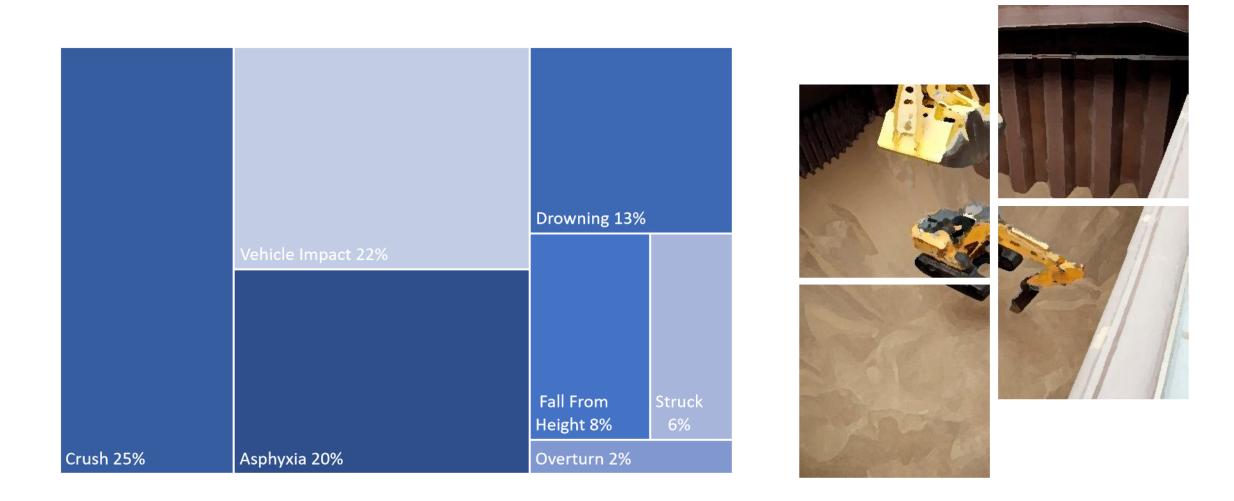
#### presenting cause all





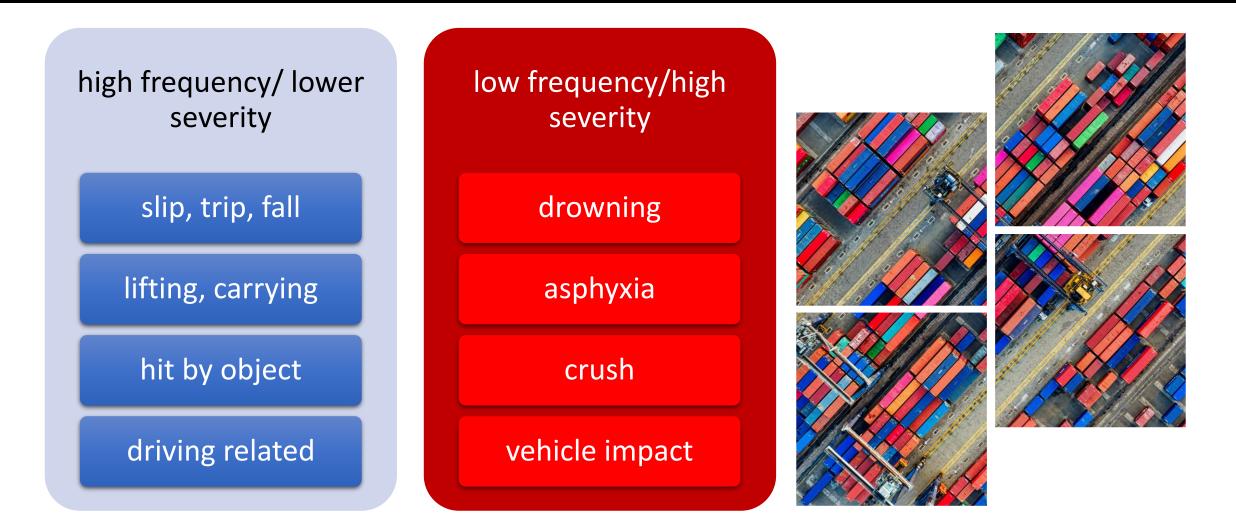


#### presenting cause <u>shore</u>



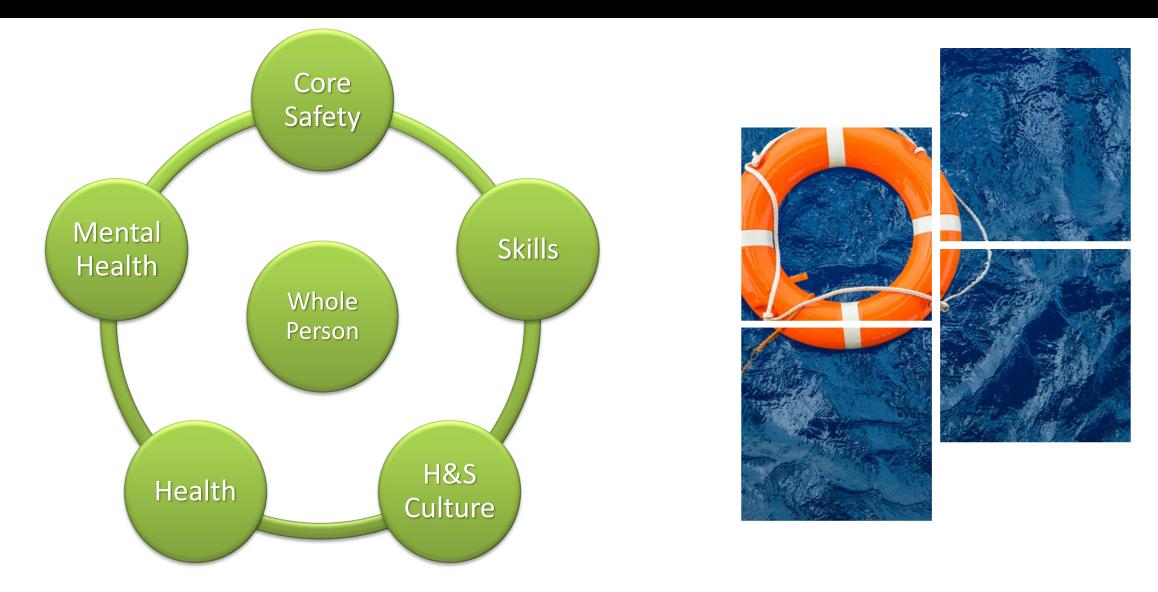


#### incidents

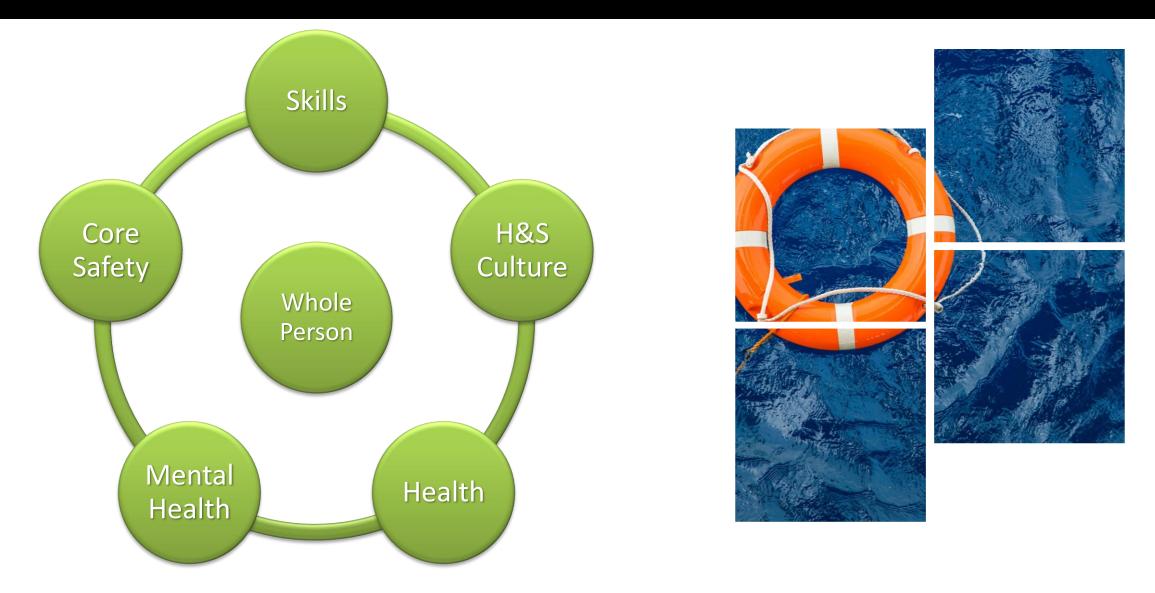


five factors for designing a safe workplace





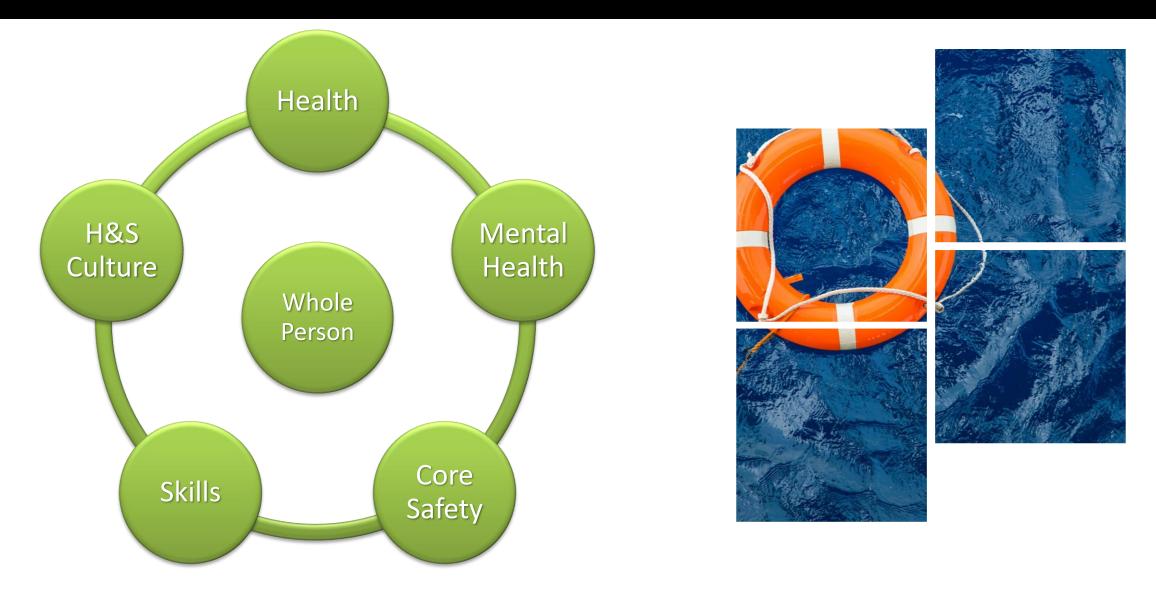




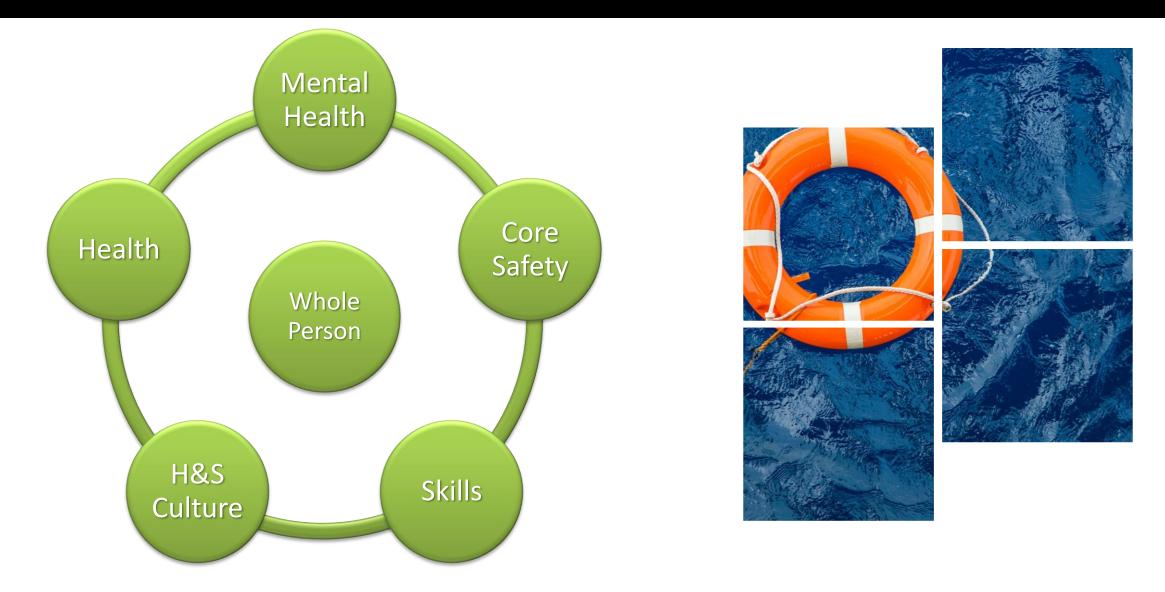






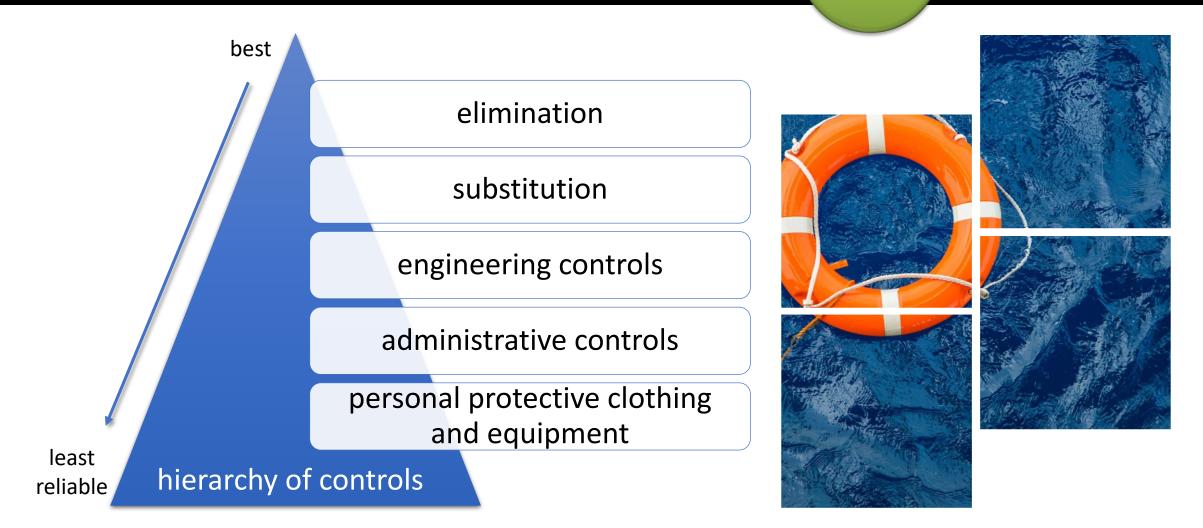








Core Safety



ICHCA INTERNATIONAL				Core Safety whole person
site design	vehicle- person segregation	plant/ equipment	zoning	
ship/shore information exchange	vessel access/ safety	planning (un)load, lift	consult, coordinate, cooperate	
competent persons	work at height	pre-use checking	inspect maintain	
spill/ emergency	safety equipment	lighting	comms	
regulations, procedures, codes		dangerous goods	cargo inspection	





induction	emergency	assessment	
records	periodic reassessment	refresher training	
competence	development	growth	



#### H&S Culture

#### whole person

Safety

definition of safety

principle

view of human factors Negative Focus

as few things as possible go wrong

Reactive, respond when something happens or is an unacceptable risk

Humans are mainly seen as a liability or hazard. A problem to be fixed

#### **Positive Focus**

That as many things as possible go right

Proactive, continuously trying to anticipate events and developments

Resource necessary for system flexibility and resilience. Problem solvers











H&S Culture





- Occupational lung disease
  - 12,000 deaths/year estimated to linked to past exposures at work
- Musculoskeletal disorders
  - 470,000 cases
  - 1,420 per 100, 000 workers
  - 28% of all working days lost due to ill health



Health





- Mental III Health
  - 822,000 workers suffering workrelated stress/depression/anxiety
  - 2,480 per 100,000 workers
  - stress/depression/anxiety = 50%
    of all work-related ill health



Mental

Health





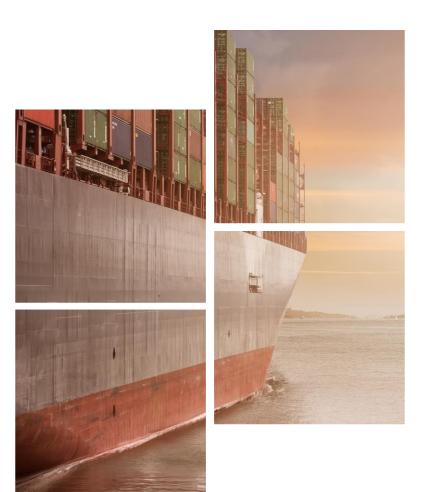


## we are more effective working together

cargo handling thought leadership

address today's problems, but also look at tomorrows challenges

continuously raising standards





### **OUR FOCUS**

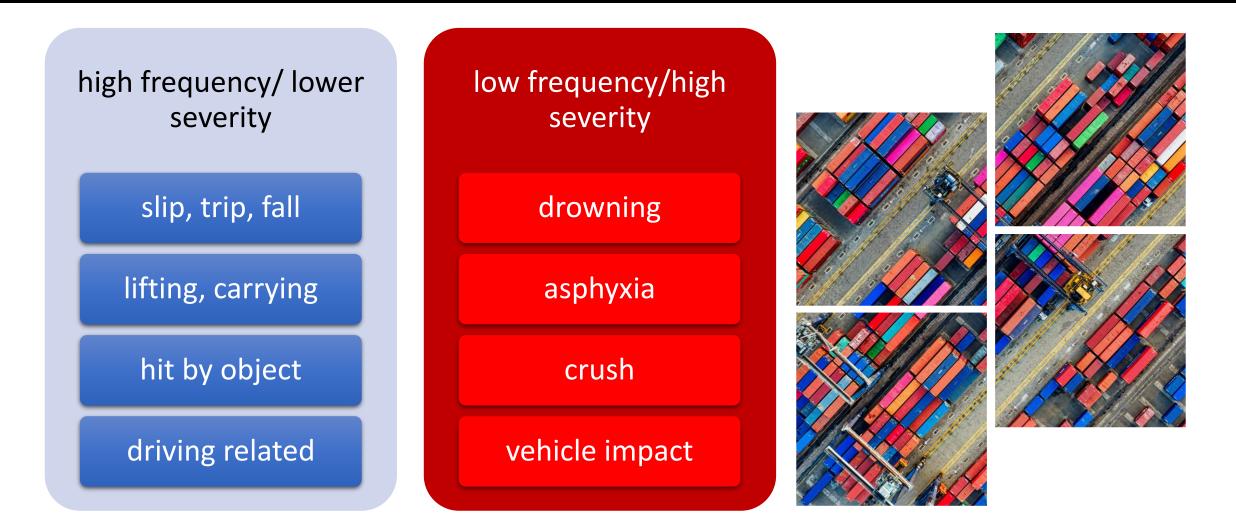
safe people safe cargoes safe ports



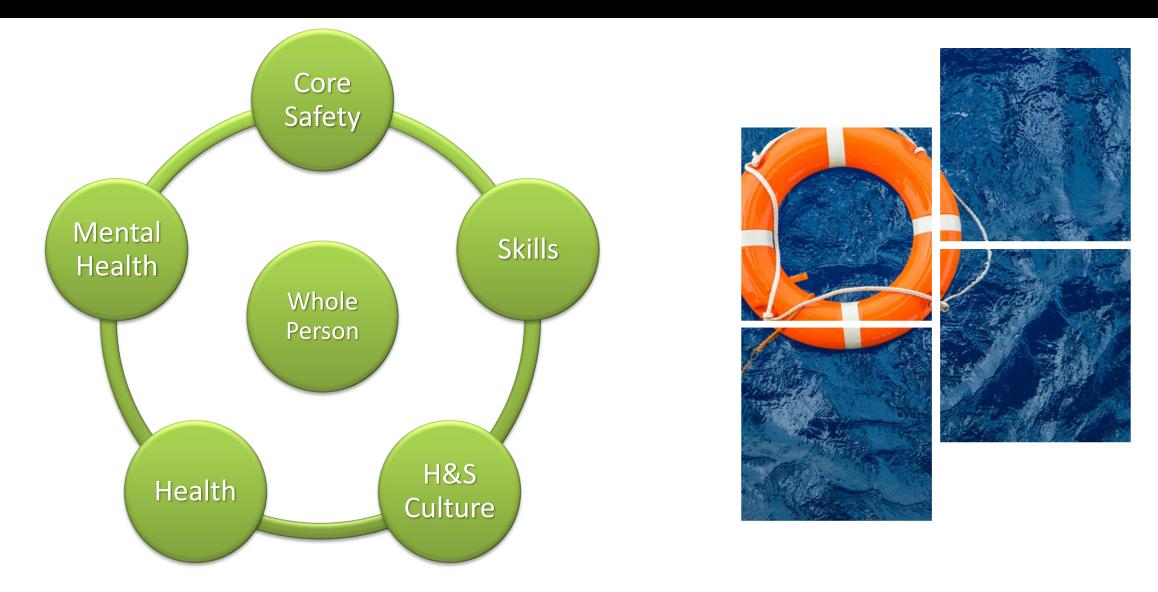




#### incidents









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## contact us:

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