Fire Safety Asia Conference Singapore 2014

Hong Kong Ferry Incident

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- Harbour and Vessel Traffic
- Incident Statistics
- Kai Tai Cruise Terminal





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  2012 Lamma Island Ferry Collision
- Search and Rescue Operations
- Fireboat Stations
- Preparedness





TOPOGRAPHY


Hong Kong
South China Sea
Singapore
Myanmar (Burma)
Laos
Thailand
Vietnam
Cambodia
Philippines
Malaysia
Hainan
Hong Kong
Guangzhou
Shantou
Kaohsiung City
Taiwan
Hanoi
Hai Phong
Zhanjiang
Haikou
Vientiane
Bangkok
Phnom Penh
Ho Chi Minh City
Da Nang
Nha Trang
Can Tho
Manila
Cebu
Davao
Sandakan
Brunei
Kuala Lumpur
Singapore
Batam
Kuching
Manado
Paracel Islands
Spratly Islands
Celebes Sea
Sulu Sea
Kalimantan
Mindanao
Palawan

CLIMATE



CLIMATE

- Rainy season – April to September
- Typhoon season - May to November
- Various degrees of warning signals will be issued by the Hong Kong Observatory when typhoon approach
- Vessels will be berthed inside typhoon shelters





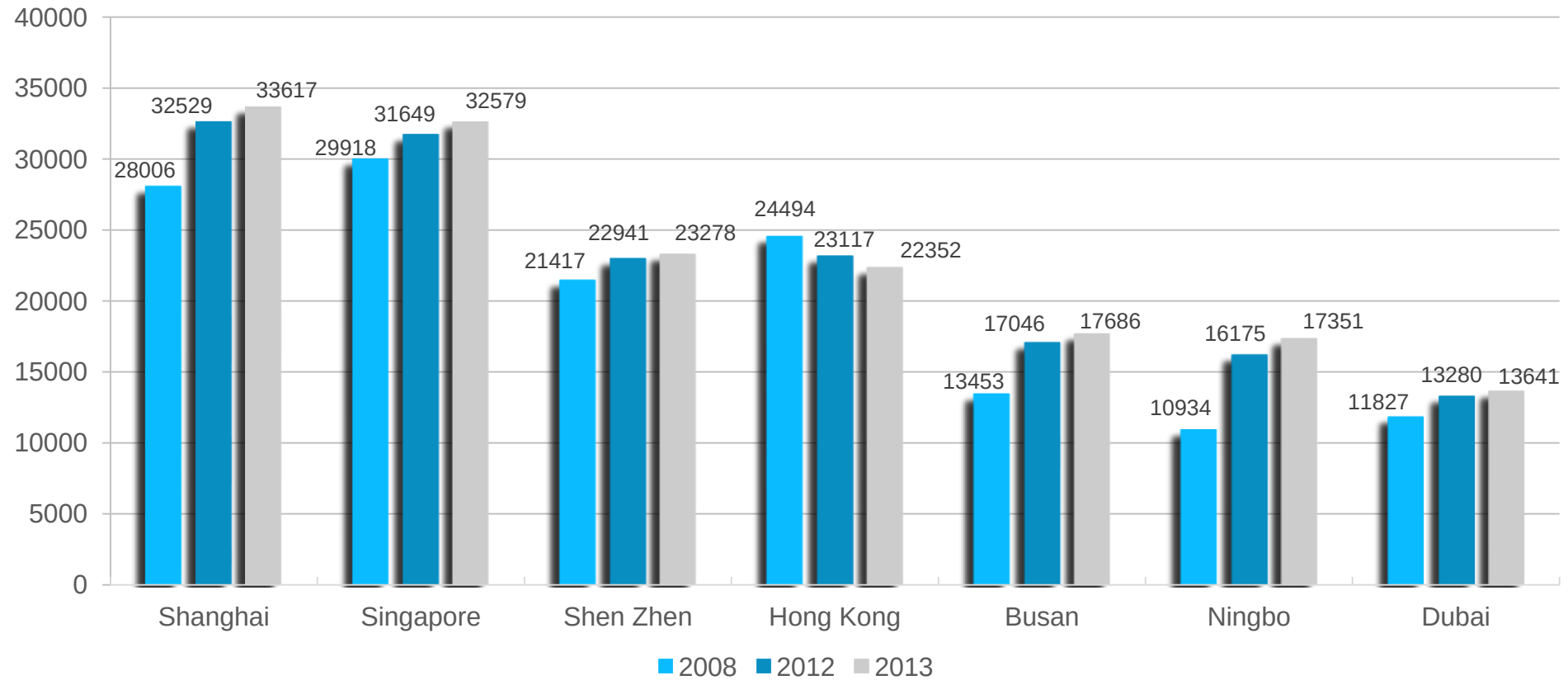


HABOUR AND VESSEL TRAFFIC
Container Terminals



HABOUR AND VESSEL TRAFFIC

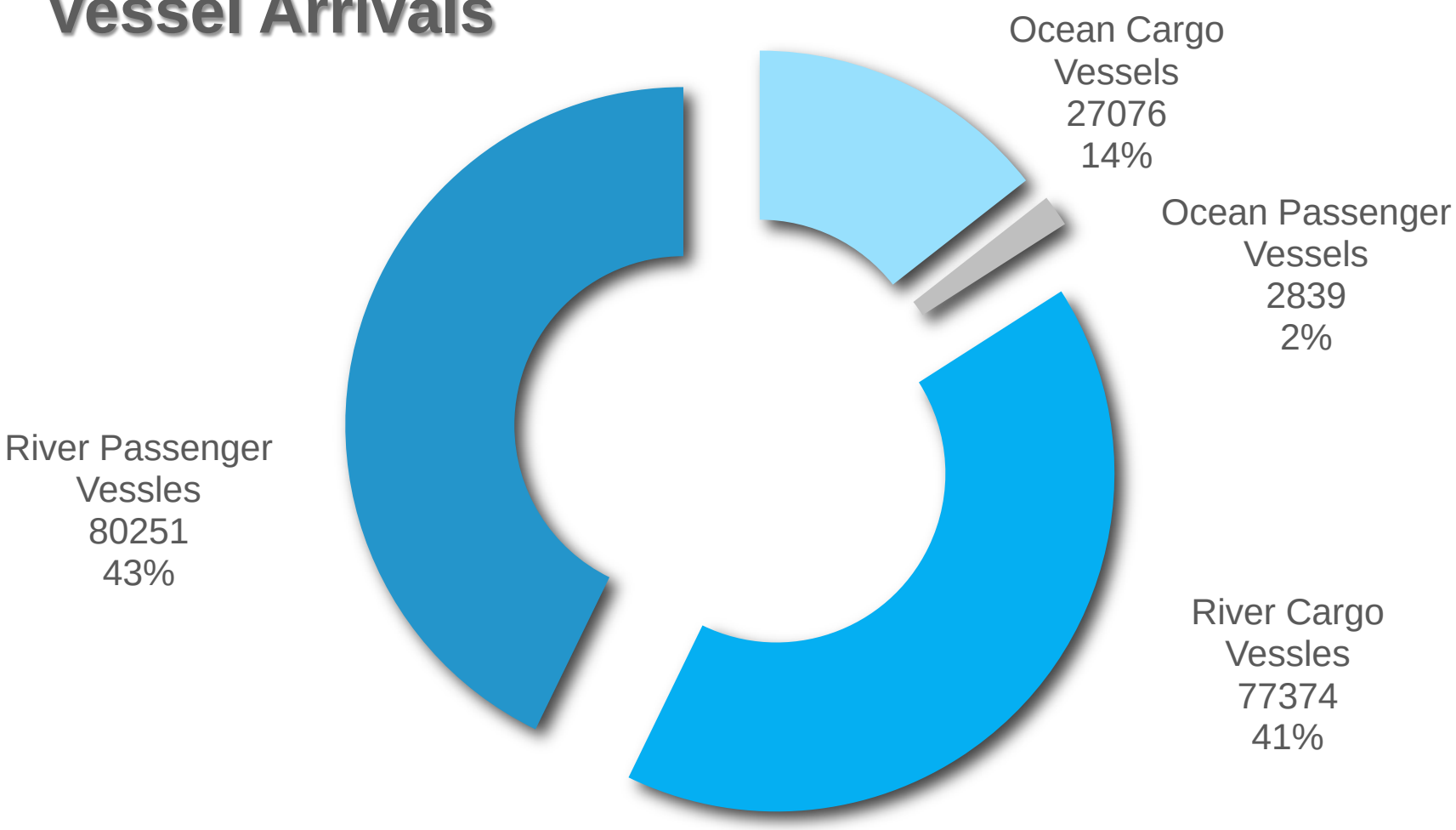
Container Ports



Comparison with Major Container Ports of the World ('000 TEUS)

HABOUR AND VESSEL TRAFFIC

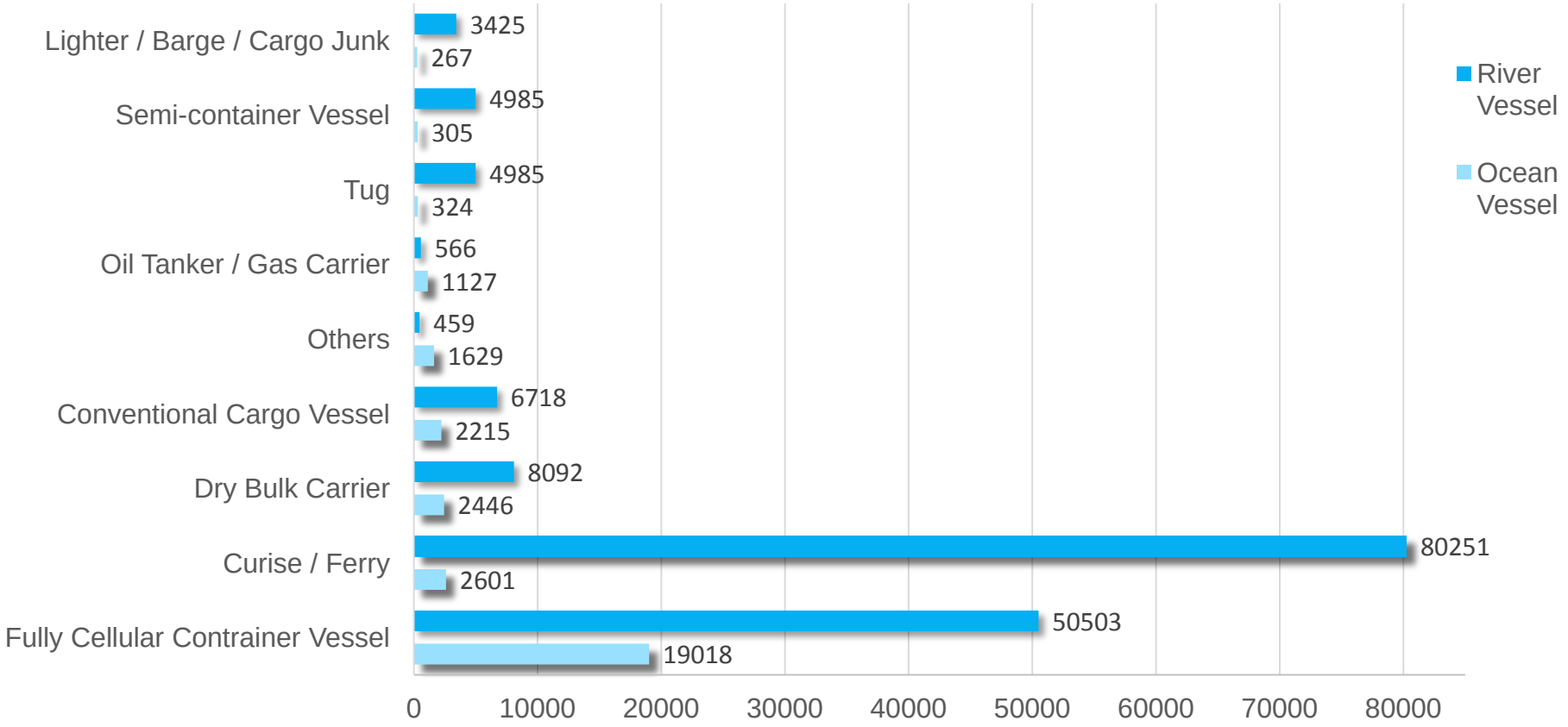
Vessel Arrivals



Vessel Arrivals in 2013

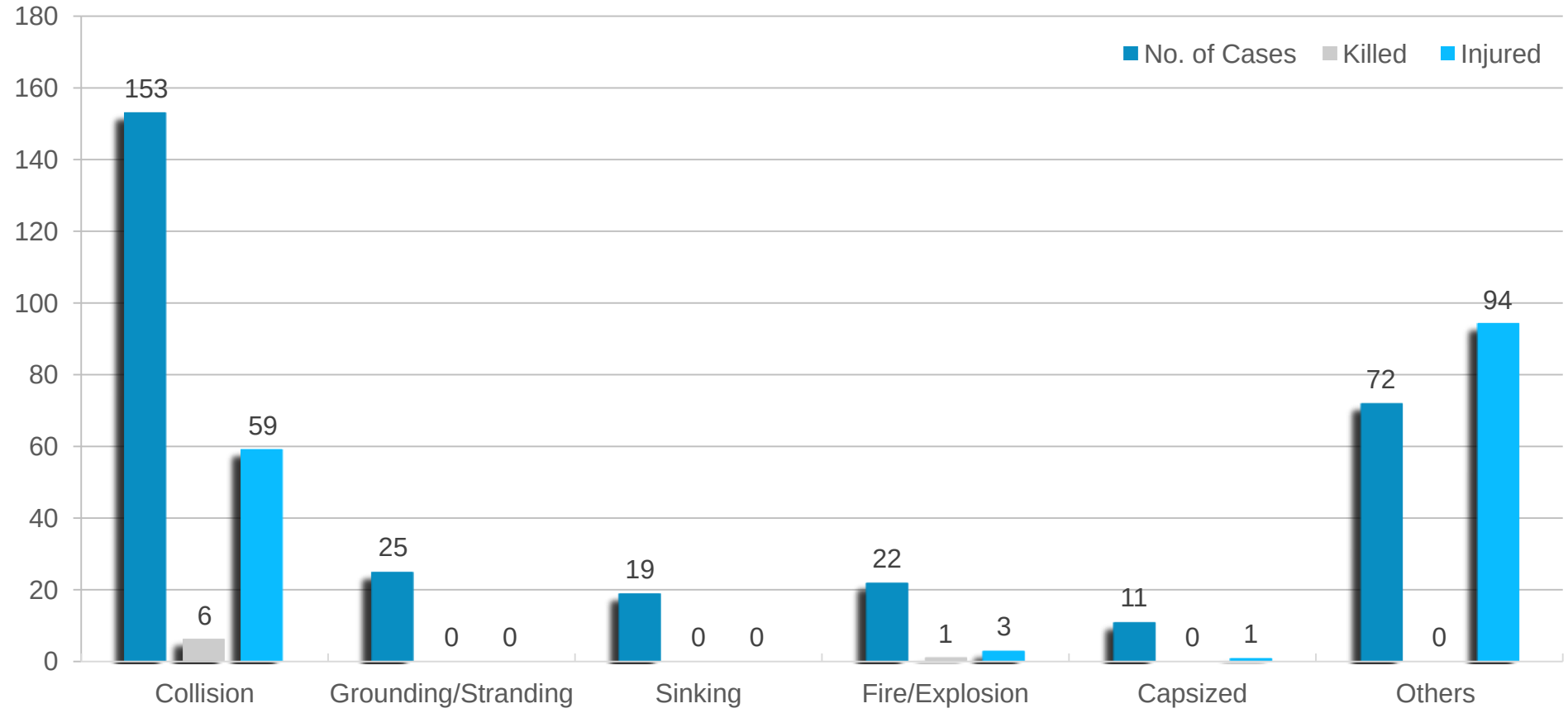
HABOUR AND VESSEL TRAFFIC

Ship Types



Vessel Arrivals by Ship Types in 2013

INCIDENT STATISTICS



Sea Accidents within Hong Kong Waters in 2013

KAI TAK CRUISE TERMINAL



KAI TAK CRUISE TERMINAL

Mariner of the Seas

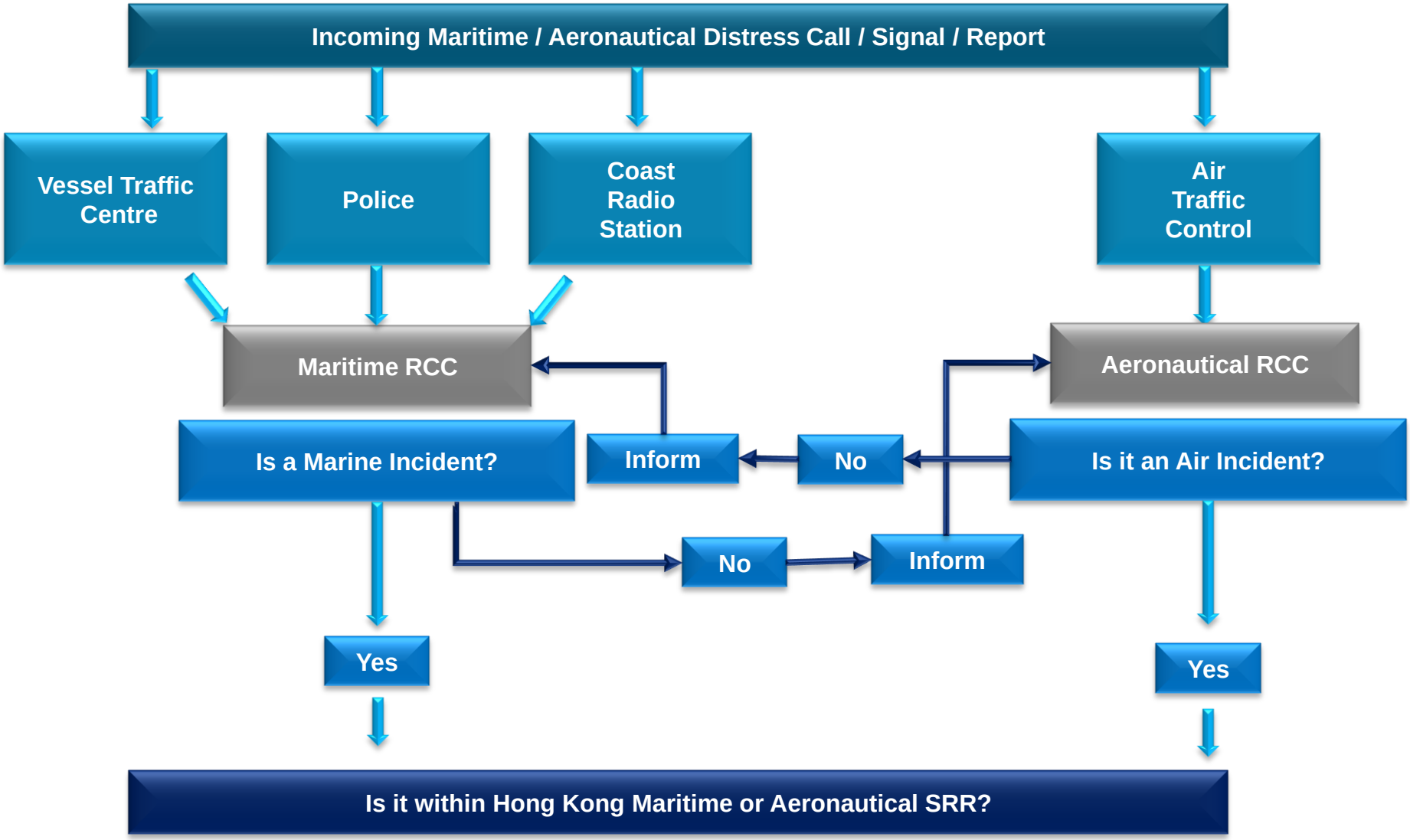




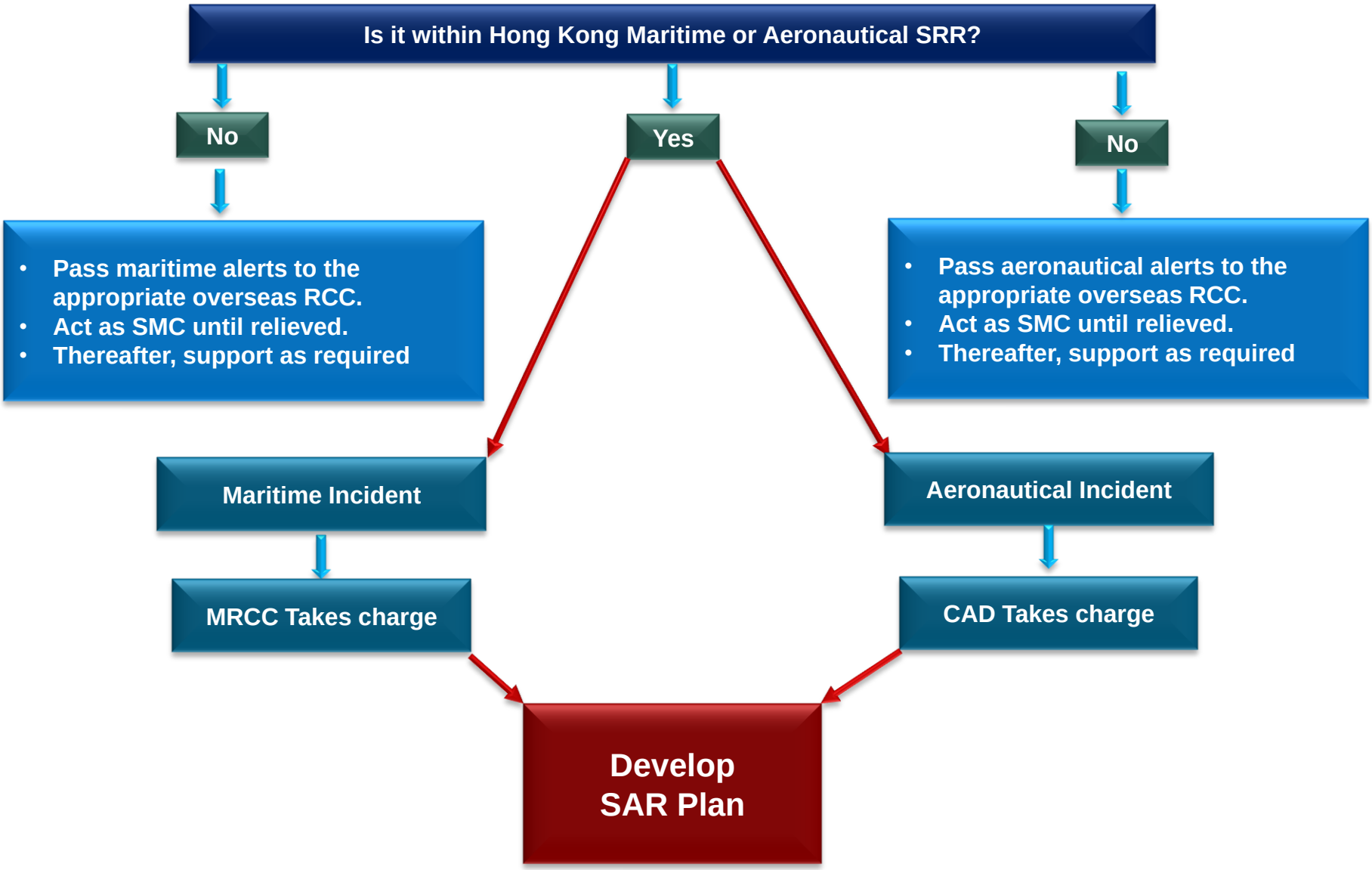
PREPARE FOR THE WORST



PREPARE FOR THE WORST



PREPARE FOR THE WORST



PREPARE FOR THE WORST

- Director of Marine – Search Director
- Fire Services Department
- Hong Kong Police Force (Marine Region)
- Marine Department
- Government Flying Service
- Civil Aviation Department
- Financial Services and the Treasury Bureau



Responsibilities of SAR Agencies and Departments

PREPARE FOR THE WORST

- Hospital Authority
- Hong Kong Observatory
- Home Affairs Department
- Immigration Department
- Information Services Department
- Department of Health
- Emergency Monitoring and Support Centre



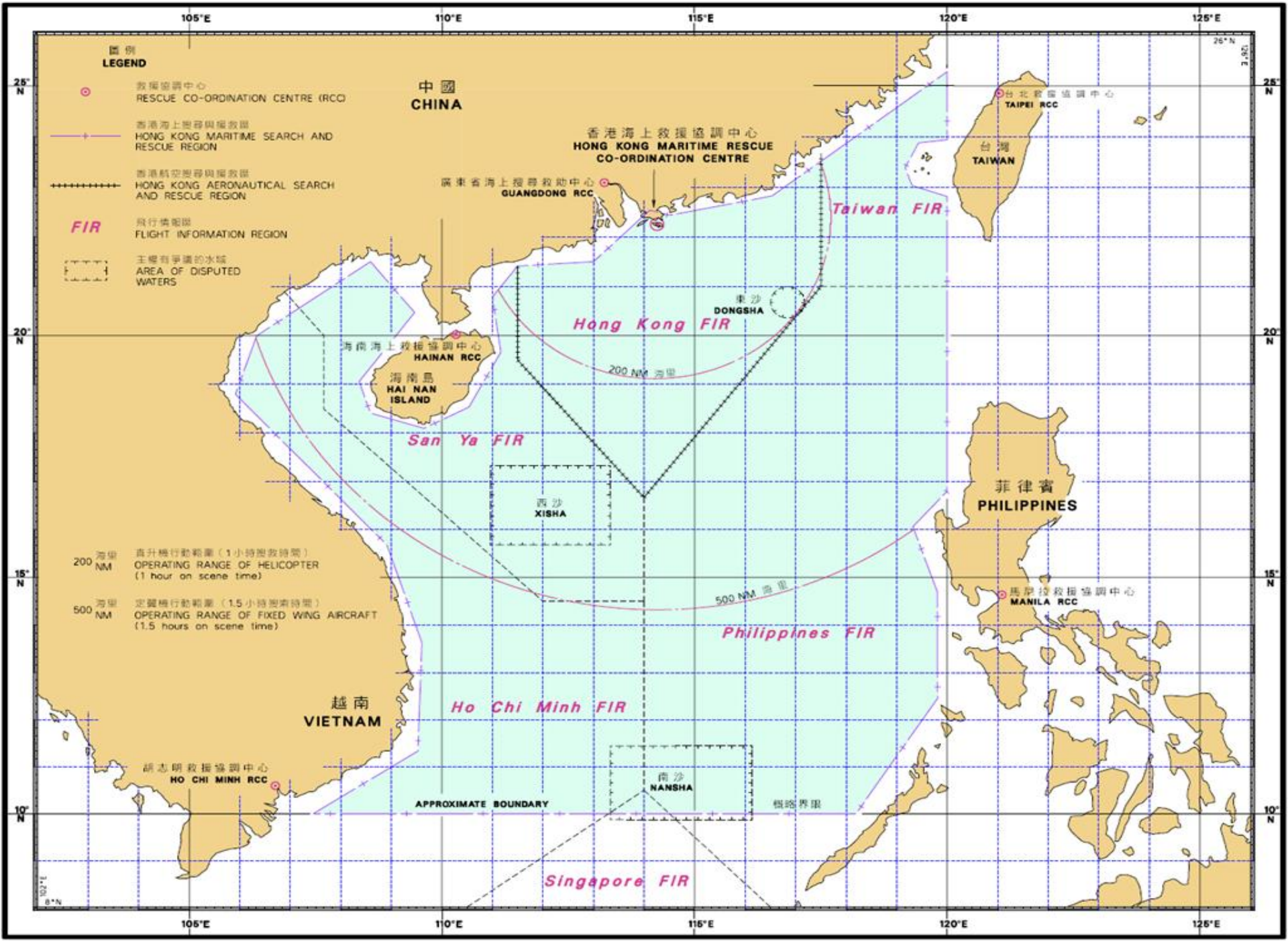
Responsibilities of SAR Agencies and Departments

PREPARE FOR THE WORST



Responsibilities of SAR Agencies and Departments

INDICATIVE MAP FOR HONG KONG MARITIME AND AERONAUTICAL SEARCH AND RESCUE REGION

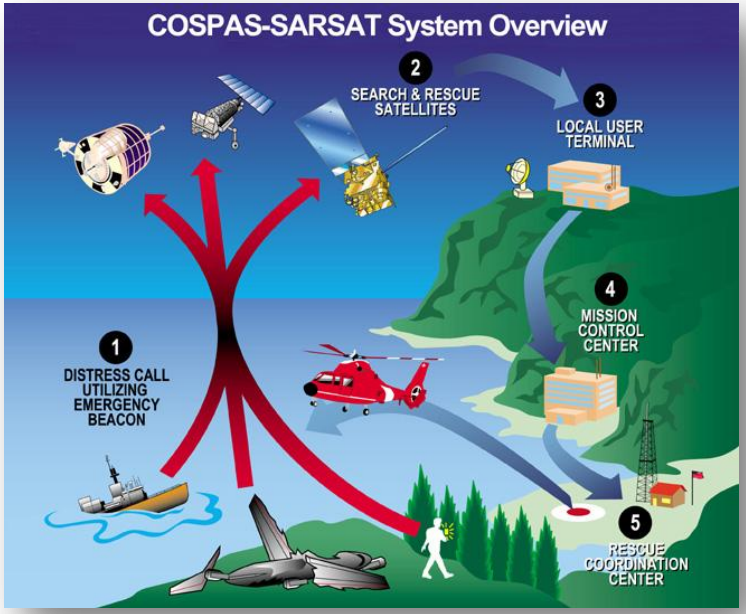


COORDINATION AND RESOURCES
MRCC

coordination

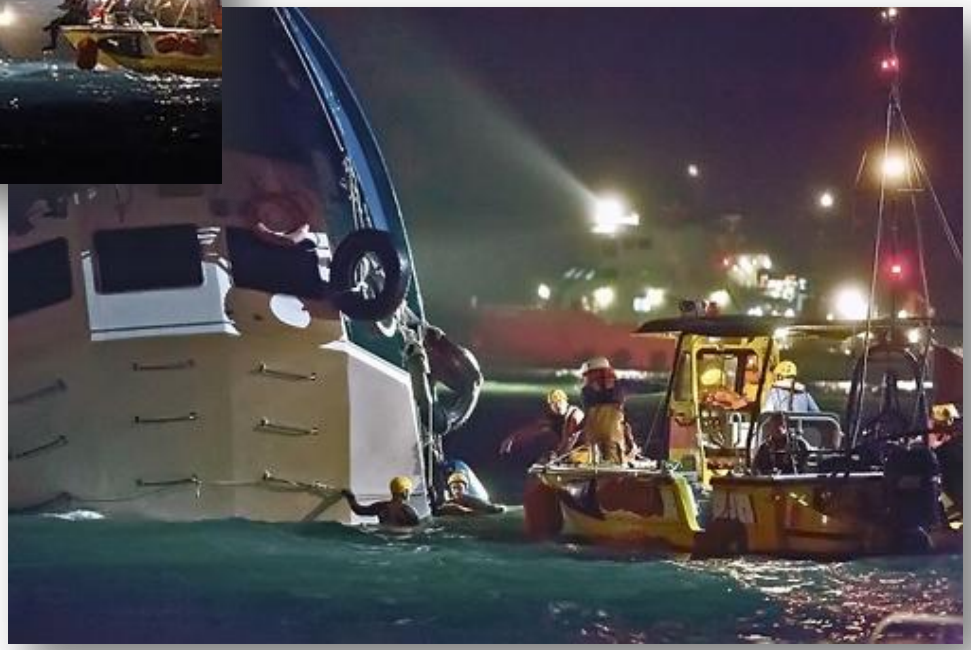
deploy all available resources

relationships with other rescue centres in the region



FERRY INCIDENT





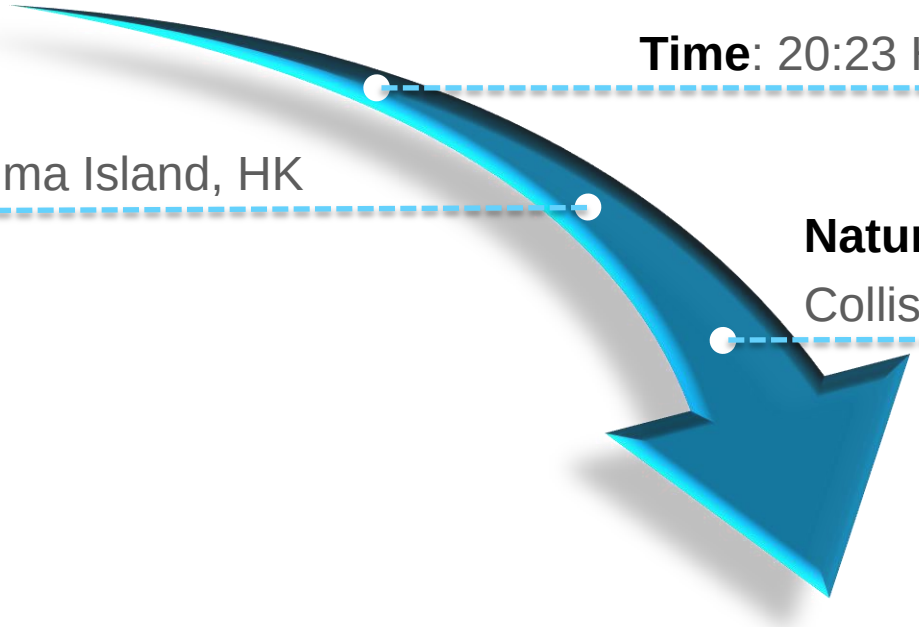
FERRY INCIDENT
2012 Lamma Island Ferry Collision

Date: 1 October 2012 (National Day of the PRC)

Time: 20:23 HKT

Place: Lamma Island, HK

Nature of accident:
Collision of 2 passenger ferry



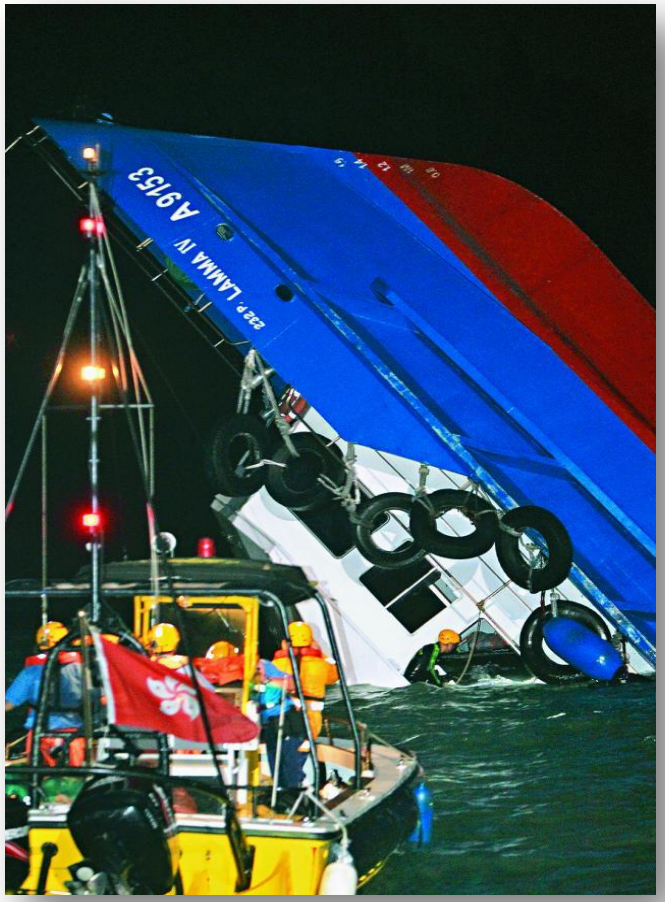
Result: 39 people died and 87 people injured

FERRY INCIDENT
2012 Lamma Island Ferry Collision

General information of the involved passenger ferry		
Name	**Lamma IV**	**Sea Smooth**
Principal feature	A double deck mono-hull passenger ferry with an LOA of 27.2m and a max capacity of 250 passengers	A catamaran passenger ferry 28m an LOA of 28m and a max capacity of 376 passengers
Passenger loaded at time of incident	Carried 124 passengers & 3 crews	95 passengers & 4 crews
Intended voyage	From Yung Shue Wan of Lamma Island to Central on the HK Island for viewing a firework display	On her scheduled voyage from Central on the HK Island to Yung Shue Wan of Lamma Island
Damage after collision	The port quarter was severely damaged with fast in-taking of sea water causing the vessel to sink vertically with her stern into sea	Portside two compartments slightly flooded & the port piercing bow was severely damaged
Situation of passenger after collision	All passengers fell into sea or trapped inside the wreckage	9 passengers sustained injury & Sea Smooth left screen soon after the collision.

SEARCH AND RESCUE OPERATIONS
Challenges and Difficulties

- Taking in water rapidly
- Vessel sank quickly stern first
- Lighting on the vessel failed, cabin in total darkness
- Most passengers were unable to don lifejackets
- Many passengers were trapped
- Vessel was sinking & unstable
- Vessel in danger of capsizing and unstable for SAR operations



SEARCH AND RESCUE OPERATIONS
Challenges and Difficulties





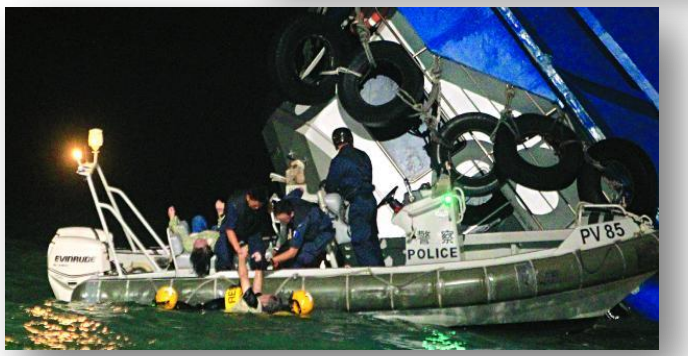


SEARCH AND RESCUE OPERATIONS

- Marine Department MRCC:
  Performing the SAR Mission Coordinator

- Government SAR Agencies for search and rescue
  - The Fire Services Department:
    Rescue Commander
  - The Government Flying Service:
    aerial search & illumination at scene
  - Hong Kong Police Force:
    sea surface & underwater search and rescue





SEARCH AND RESCUE OPERATIONS

- Medical services:
  - Hospital Authority
  - Department of Health: Auxiliary Medical Services
  - Fire Services Department: Ambulance





SEARCH AND RESCUE OPERATIONS

- Casualties from Lamma IV (out of 124 passengers + 3 crewmen)
  - 39 dead
  - 27 recovered by Fire Services divers
  - 3 recovered by Police divers
  - 9 certified dead at hospitals
  - 78 injured
- Casualties from Sea Smooth (out of 95 passengers + 4 crewmen)
  - 9 sustained minor injuries
- Injured rescuers: 2 firefighters and 3 police officers

SEARCH AND RESCUE OPERATIONS

Diving Unit comprises about 150 divers in 7 teams



SEARCH AND RESCUE OPERATIONS

The Diving Base on Stonecutters Island is equipped with a range of advanced professional training facilities to hone the search and rescue skills of our divers



SEARCH AND RESCUE OPERATIONS

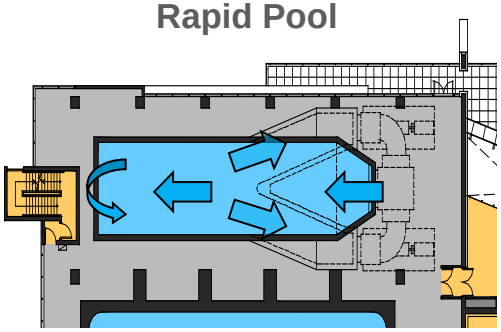
Main Diving Pool

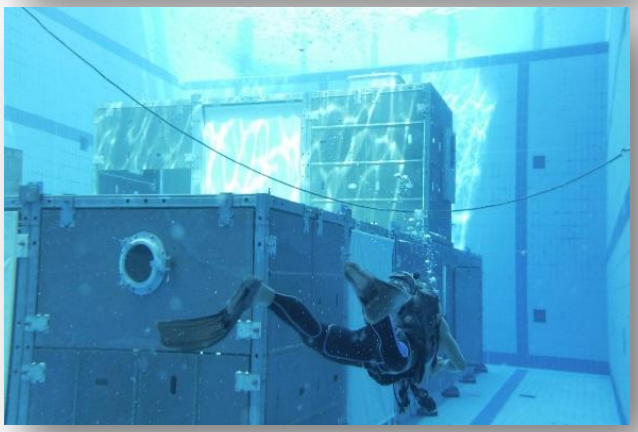




Deep Diving Simulator System

Rapid Pool







Ship Wreck Simulator

Underwater Welding Tank

SEARCH AND RESCUE OPERATIONS

Main Diving Pool





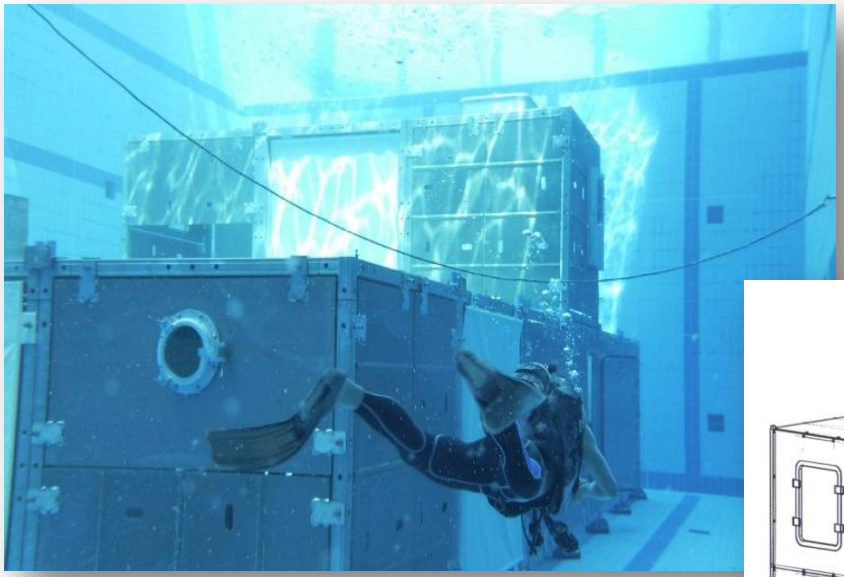


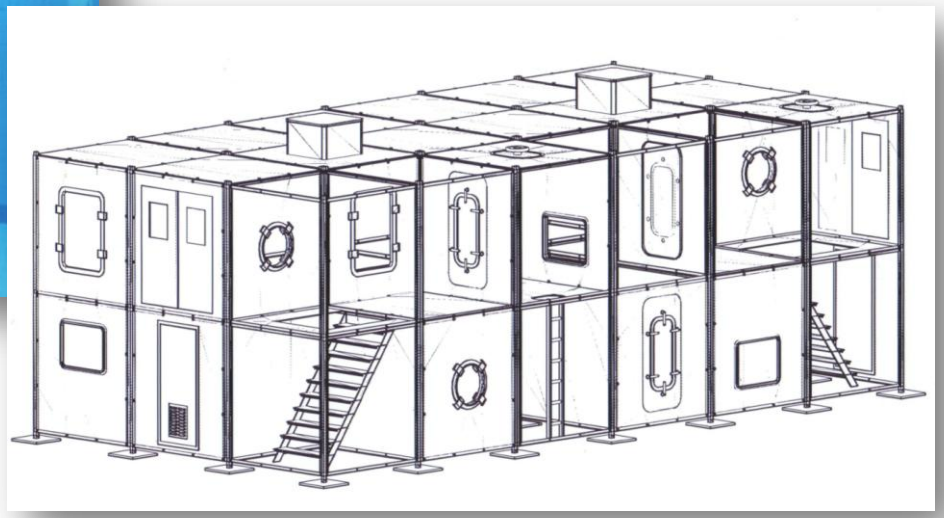
SEARCH AND RESCUE OPERATIONS
Rapid Pool





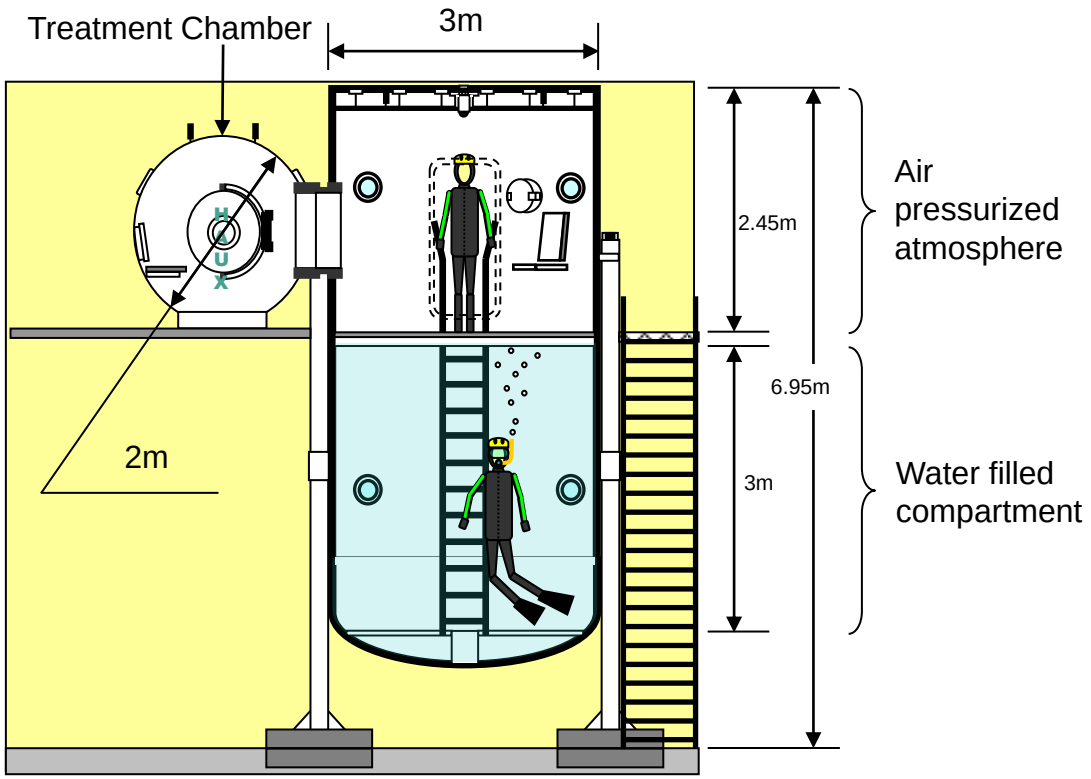
SEARCH AND RESCUE OPERATIONS
Ship Wreck Simulator





SEARCH AND RESCUE OPERATIONS
Deep Diving Simulator System





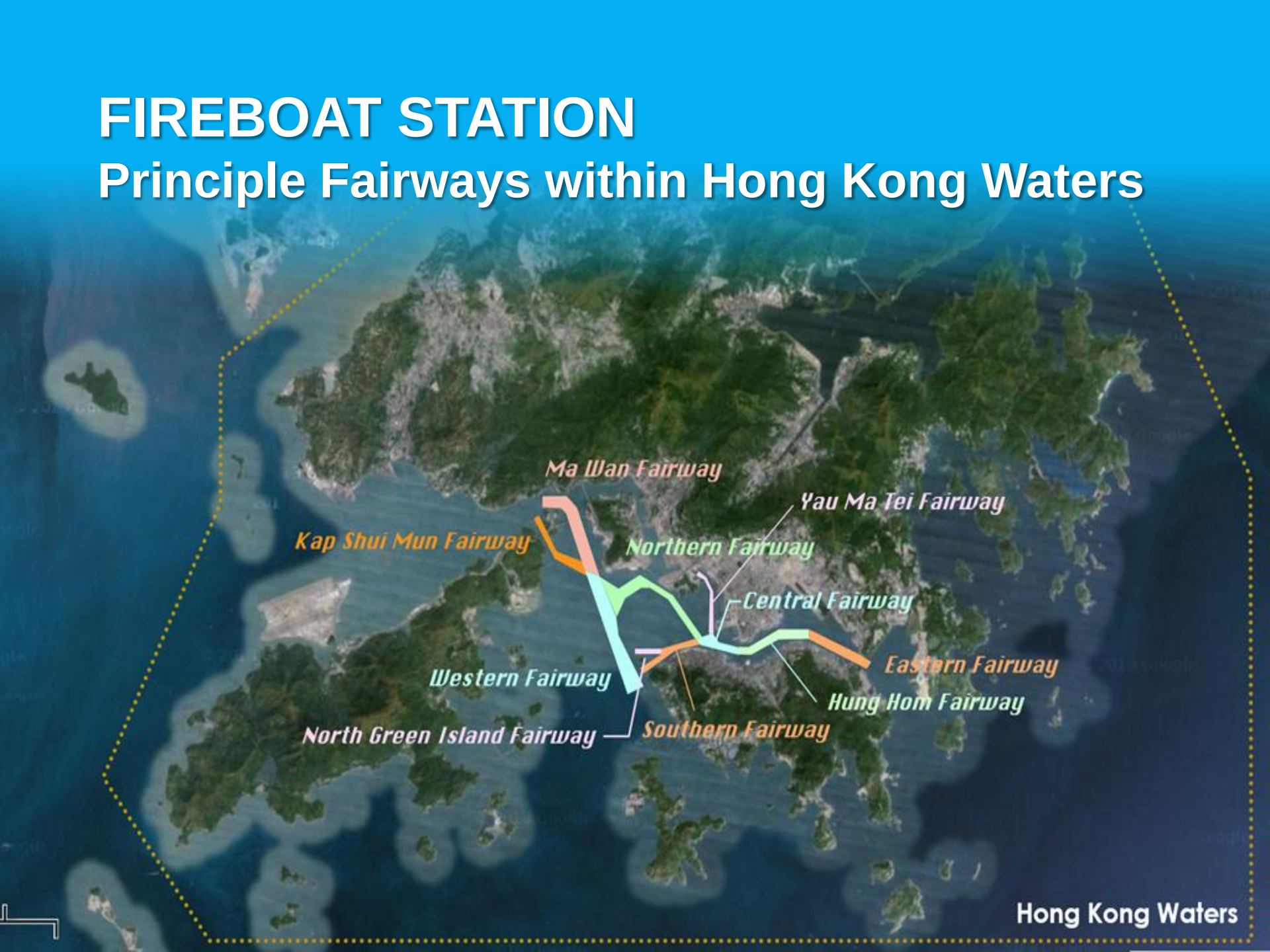
SEARCH AND RESCUE OPERATIONS
Underwater Welding Tank

5m deep
underwater environment

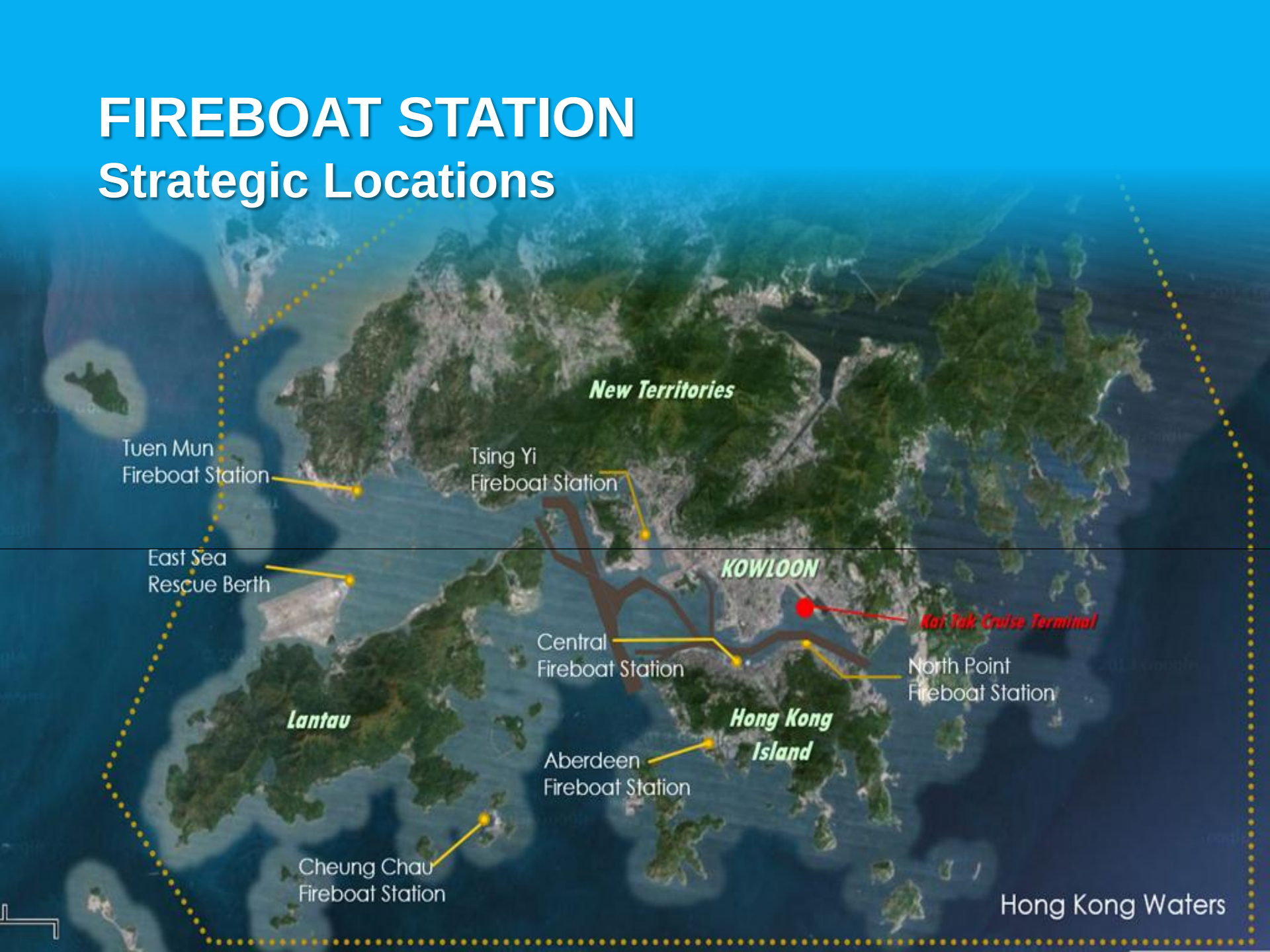


FIREBOAT STATION

Principle Fairways within Hong Kong Waters



FIREBOAT STATION
Strategic Locations



PREPAREDNESS



Thank You

for your precious time and attention