



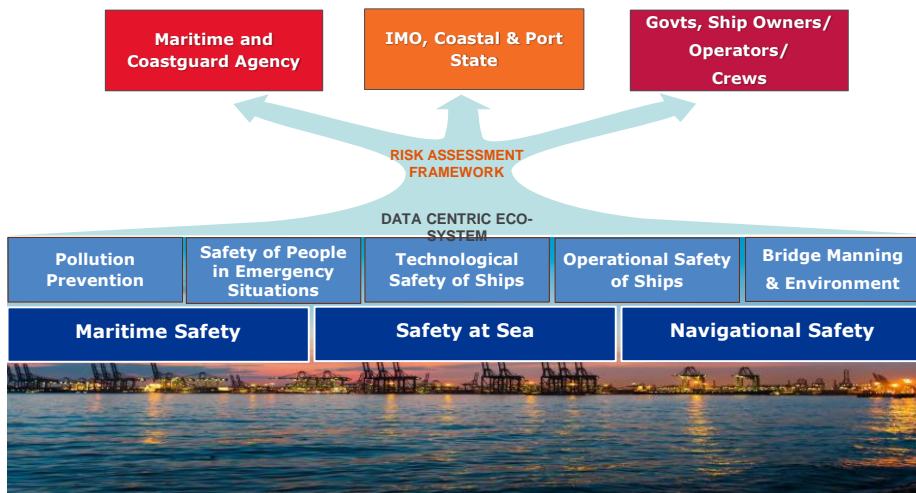
CHALLENGES ON SAFETY & SECURITY DUE TO COVID-19 PANDEMIC

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The role of Maritime in promoting Safer Seas



# The Enablers of Critical Operations at Sea

ENABLE CRITICAL OPERATIONS AT SEA  
 CLS, DECISION SUPPORT SOLUTIONS

### SAFETY

**Border Control**  
In an insecure geopolitical world, the number of migrants and refugees crossing the ocean is increasing. CLS helps maritime authorities to detect illegal vessels in order to prevent incidents at sea and to help rescue people.

**Search & Rescue**  
Maritime authorities are responsible for the safety of the ships in their Search & Rescue (SAR) areas. In support of Search & Rescue operations, CLS provides drift models (fully compatible with International Aeronautical and Maritime Search and Rescue guidelines), as well as the capability to retrieve external data (tracking, oceanographic, weather...) to improve the maritime picture around the reported incident.

**Piracy Support & Prevention**  
Thanks to its high resolution Synthetic Aperture Radar (SAR) piracy and robbery are on the rise. CLS offers the advantage of satellite imagery of coastlines, both in full range of latitude & with better resolution. CLS is a trusted partner in piracy hotspots and prevention.

**Area Monitoring**  
Maritime transport represents 90% of global trade. Maritime control and security services have been 20% of global trade for more than a century in order to ensure the global economy. CLS has been recognized for its view of maritime traffic based on multiresolution data.

### SECURITY

**Fight Against Illegal Fishing**  
In many maritime regions, illegal fishing has led to the depletion of fish stocks threatening local economies and food security. CLS has developed an integrated solution merging data from VMS/GAR, AIS/LRF/GAR/CP/FCAL, MAREV, BPAS, and biological modeling.

**Alleged Infringe**  
Shipping, piracy & illegal trafficking and environmental impact have significant effects on the environment and security. CLS can detect suspicious activities by combining data from different surveillance systems (satellite, RFAS, Big data) with the expertise of dedicated analysts.

### ENVIRONMENTAL CRIME

**Pollution Detection**  
Every 3 days, a 200-ton ship is wrecked somewhere in the world. Some 6 million tons of oil find their way into the sea each year. CLS offers services to detect accidental or intentional oil spills, identify polluters and forecast pollution drift.

**Monitoring of Ship Emissions**  
Following IMO MARPOL Annex VI guidelines on fuel consumption data collection and reporting and EU MRV regulations, CLS has developed efficient, automated solutions allowing flag administrators and registries to collect fuel consumption data from their fleet and ensure data transmission to the IMO or European Commission (EMET).

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Source: Fulcrum Maritime System



# What we have seen so far for robbery & piracy in this pandemic (1/2)

### Commentary: COVID-19 is accelerating maritime insecurity in Southeast Asia

Non-state actors are exploiting the health crisis and perceived weakening of state capacity to heighten domestic violence, says an observer



**Continuation of illegal, unreported and unregulated fishing incidents**

### Piracy is on the rise, and coronavirus could make it worse



**The Conversation**  
1. While the world looks on in a state of shock at the coronavirus outbreak, some governments are looking at the impact of piracy on the world's shipping industry.  
2. While the world looks on in a state of shock at the coronavirus outbreak, some governments are looking at the impact of piracy on the world's shipping industry.

**Ships being attacked in undeveloped countries due to economic instability and become easy prey for local criminal gangs**



**COVID-19 impacts the maritime security**  
1. Global shipping is now more than ever exposed to security threats, and piracy is on the rise.  
2. A significant rise in global maritime terrorism, piracy, and other security threats is expected.

**Increase in illicit maritime trading, rise in migration & governments are overwhelmed; focusing on health systems and unemployment**

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## What we have seen so far for robbery & piracy in this pandemic (2/2)

### Surge of Piracy amid Coronavirus Outbreak



The surge in piracy against the international Maritime Bureau reflects the negative impact of the Covid-19 on maritime security. There need to be significant improvement and policy change in terms of economic sustainability, and the economic implications brought by the Covid-19 pandemic is going to cause the re-organization of the global economy.

The surge in piracy attacks can be directly linked to flaws in the security management of the ports and shipping lanes & how the ships are stranded

### Will Covid-19 Trigger a Tsunami of Maritime Crime in Southeast Asia?

The incidents of maritime violence in Asia has risen sharply in the first half of 2020. These incidents are likely to rise in the second half of the year, but the high number of attacks of the late 1990s and early 2000s may not be repeated, given greater political stability in Southeast Asia and increased regional cooperation.



Large numbers of vessels at anchor in ports due to falling demand for shipping provide a target-rich environment for maritime criminals

### Piracy and armed robbery in Philippines almost double in Jan-Sep 2020

The number of incidents reported in the Philippines for the first nine months of 2020 has almost doubled compared to the entire year of 2019, with 13 incidents in 2020 and 7 in 2019.

The increase of the number of incidents in the Manila anchorage area during Jan-Sep 2020 is due to the increase of the number of ships anchored in the Manila Bay area which has been designated as a Green Zone for crew change by the ICG and the COVID-19 pandemic. The large number of ships anchored in the bay increase the responsibility for governments to come up with a small boats during hours of darkness to prevent robbery that from the

Ships anchored at approved zones for crew change becomes an easy target for robbery/theft by small boats at night

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## Do not forget about Cyber-Attacks i.e., the new disruptor

### FireEye discovered SolarWinds breach while probing own hack



Cyber-Attacks hidden in another software

### Shipping line CMA CGM suspects data breach from cyber attack



Data breach caused shut down access to online services after malware targeted the peripheral servers

### Shipping industry hit by multiple cyber attacks



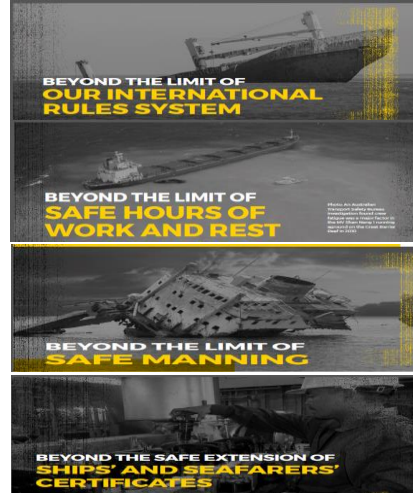
Sophisticated cyber attack against IT systems that even when a robust security measures are in place

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## COVID-19 corner-cutting places too much risk in the international shipping system

- Government regulators in flag and port states have chosen to suspend the application and enforcement of critical rules
- With shore leave severely curtailed, seafarers are being prevented from taking portions of their non-working time ashore and away from their workplace
- Unsafe manning is a threat to the safety and security of the crew, the ship, and the environment
- Lack of access to approved courses for maintenance of required certificates and to retain their positions and employment on vessels



Source: International Transport Workers' Federation Maritime Safety Committee  
September 2020



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## A strategy to reduce piracy & armed robbery in risky areas must be drawn on industry resources as a whole, through collaborative measures

### Industry

- Increased implementation of relevant self-protection of shipping and threat awareness
- Increased incident reporting to relevant trusted centres
- Continued and increased dialogue with key players in the region with a particular focus on the risk areas, Government and Navy on the issue of piracy and armed robbery
- Continued and increased dialogue with key regional stakeholders on the issue of piracy and armed robbery
- Increased engagement with non-regional stakeholders, including States, regional organisations, and militaries on the issue of piracy and armed robbery to deliver observable results in the region e.g., deployment of non-regional military assets
- Increased public awareness of the problem of piracy and armed robbery in the region and its affects on seafarers and international trade, through awareness-raising campaign

### International Community

- IMO – establishment of a technical group to address piracy and armed robbery in high-risk regions
- UN – Renewed Security Council Resolution on piracy in the region
- Prosecuting Maritime Piracy in the International Criminal Court (ICC)
- G7++ FOGG – clear engagement on the operational issues of regional maritime security and specifically GoG MSA.

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THANK  
YOU

