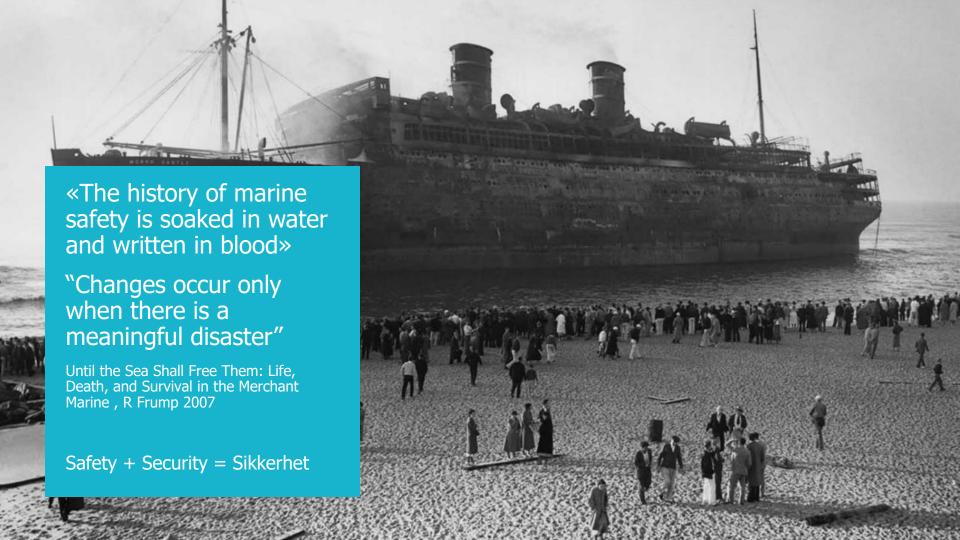


Hva skjer rundt oss - 2017 et vannskille?

Trond Leira

Daglig Leder Inmarsat Solutions AS



2017 – Året da storskala cyberskade kom til shipping

Har vi hatt uhell med mening i den maritime bransje?



Wannacry Mai 2017: Estimert 4 milliarder USD alle industrier (Trend Micro)

NotPetya Juni 2017 : Maersk bekrefter tap på 2-300m USD (Forbes)

Totalt tap på ransomware 2017 : 5 milliarder USD, (CS Ventures)

Nytt globalt angrep kan koste opp til 68 milliarder USD (Lloyd's of london)

Maersk and IBM bring blockchain to shipping

Fourth industrial 'data' revolution will change shipping

Satellite used for sustainable fishing

Class societies prioritise support for digitalisation

Rolls-Royce and Google partner on Autonomous ships

Thai Union, Mars Petcare and USAID go digital

CMA CGM begins digital transformation

Momentum building in unmanned vessel development

2017 - The Year of Digitalisation

Technology to simplify administrative burden in shipping

Efficiency drive fuelling remote monitoring boom

Shipping to benefit from augmented reality

Bahri Shipping forms big data alliance

Robust cyber rules needed for digitalisation to reach full potential DNV GL bets big on digitalisation

Wärtsilä opens first maritime digital acceleration center in Finland Cost of Maersk cyber attack estimated at \$300m





Current cyber landscape

future autics Research

39% experienced a cyber attack in the last 12 months

not confident they would know about a cyber issue onboard

believe their company's current IT defences are not effective at repelling cyber attacks

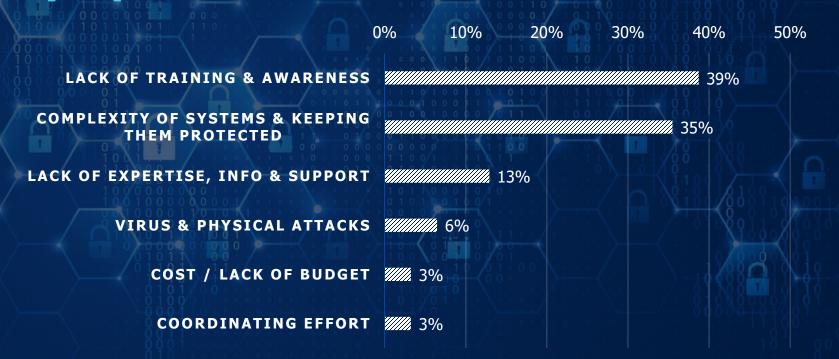
of companies does not have a company wide security plan implemented

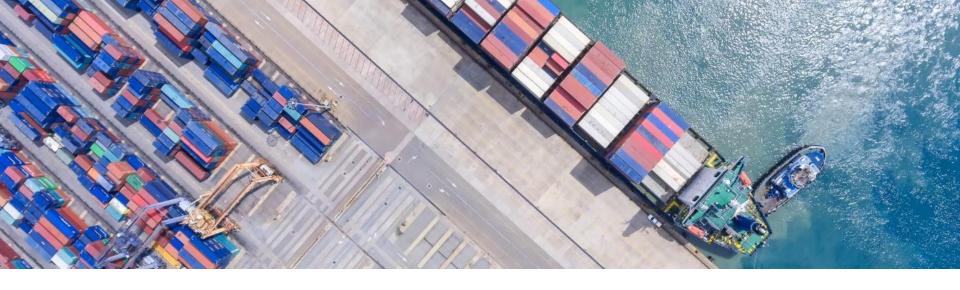
of companies does not have a separate cyber plan for their vessels

does not have a person on-board responsible for the ship's Cyber Security

of companies were asked by their customers about their IT security credentials in the last 12 months

Main concerns and challenges for ship operators

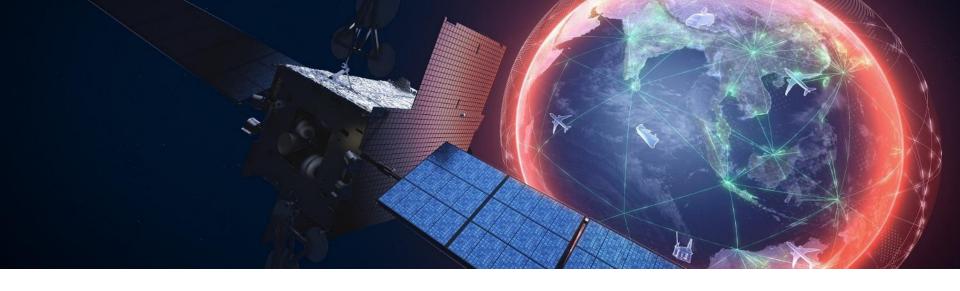




Industry responsibilities

- > Classification societies & ship builders
- > Systems manufacturers
- > Operators
- > Ports

- > Support services
- > Crew associations
- > Collectively



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