

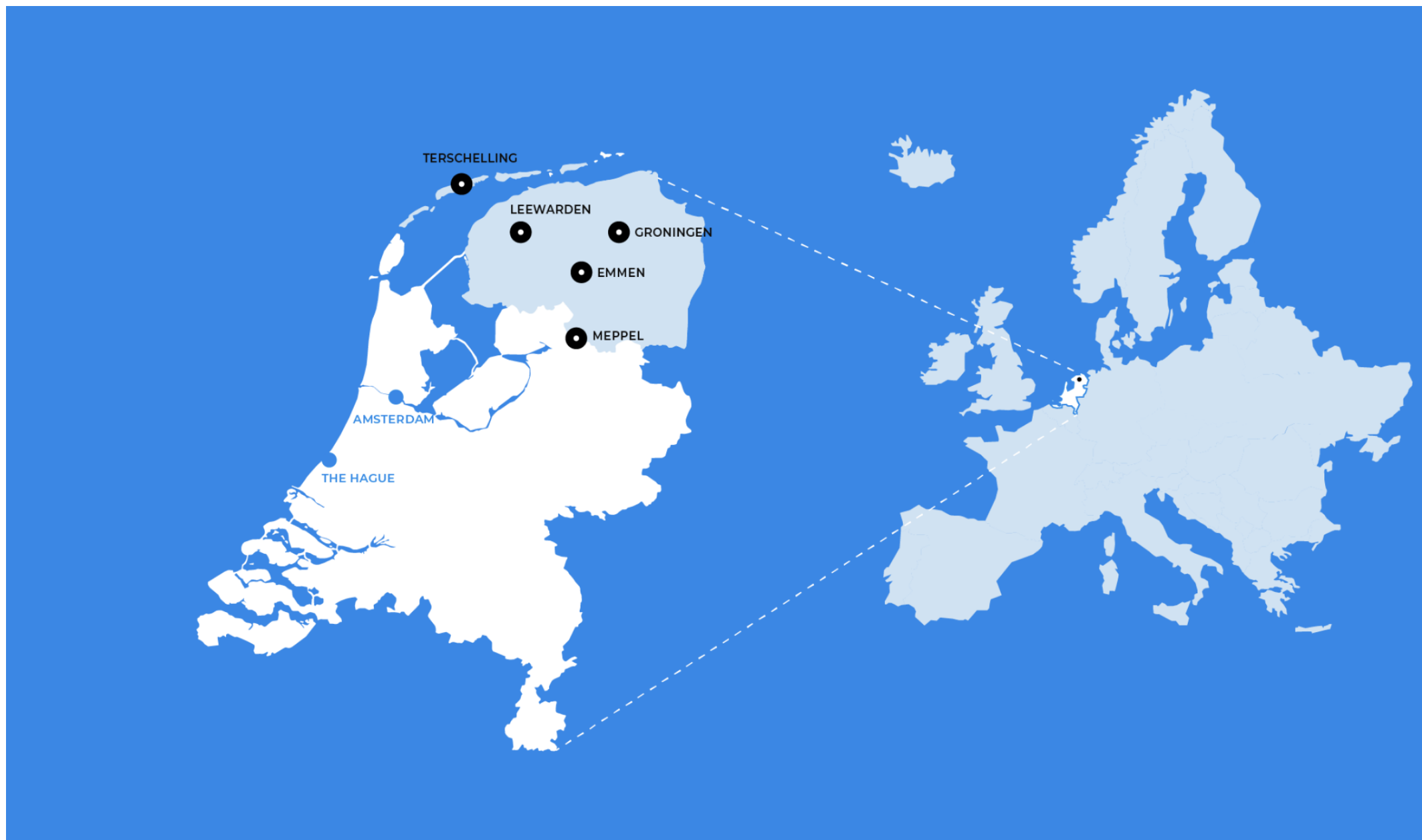


university of
applied sciences

Maritime IT Security Research Group

Stephen McCombie







Maritime Institute
Willem Barentsz

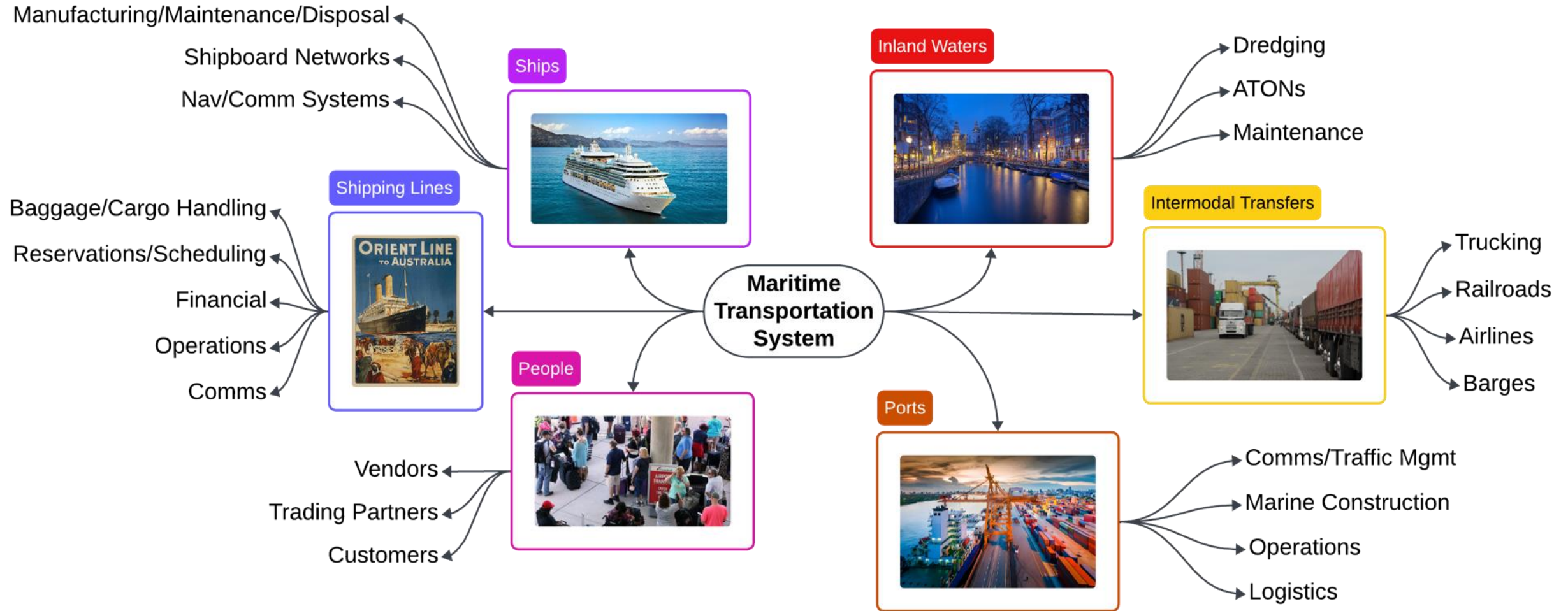
MARITIME INSTITUTE
WILLEM BARENTSZ

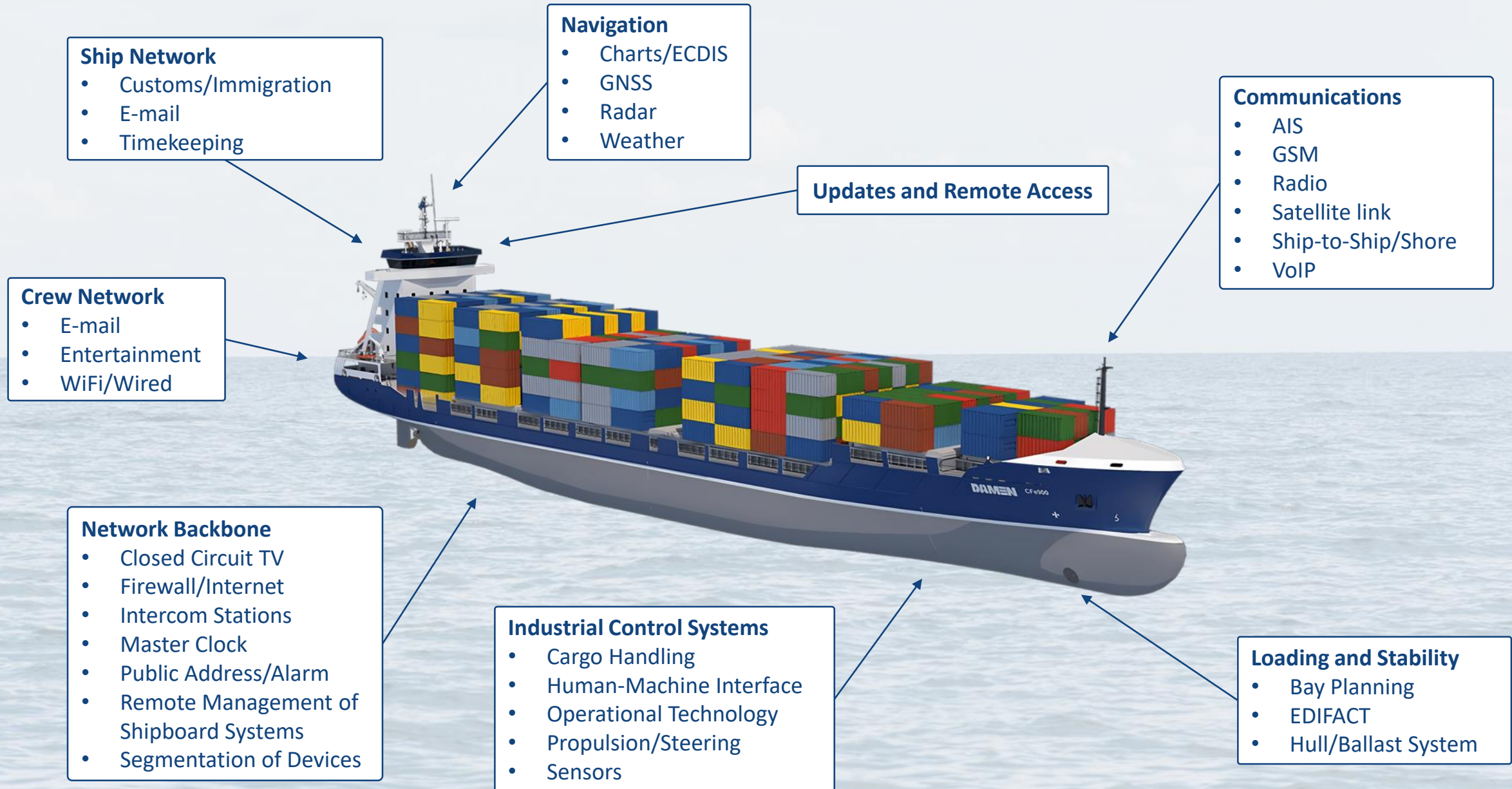
NHL STENDEN

Maritime Cybersecurity Research Group



- Established September 2021
- Goal is to conduct impactful research into Cyber threats to the Maritime Transportation System (MTS)
- Our scope apart from traditional maritime activities includes inland waters, port facilities and other critical elements of the MTS
- This is achieved by leveraging our skills across disciplines within NHL Stenden in Ethical Hacking, Secure Programming, Serious Gaming, Maritime Technology, Maritime Officer Training, Marine Shipping Innovations and Cyber Safety
- Three major projects





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EUROPEAN
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ENISA THREAT LANDSCAPE: TRANSPORT SECTOR

July 2021 to October 2022)

March 2023

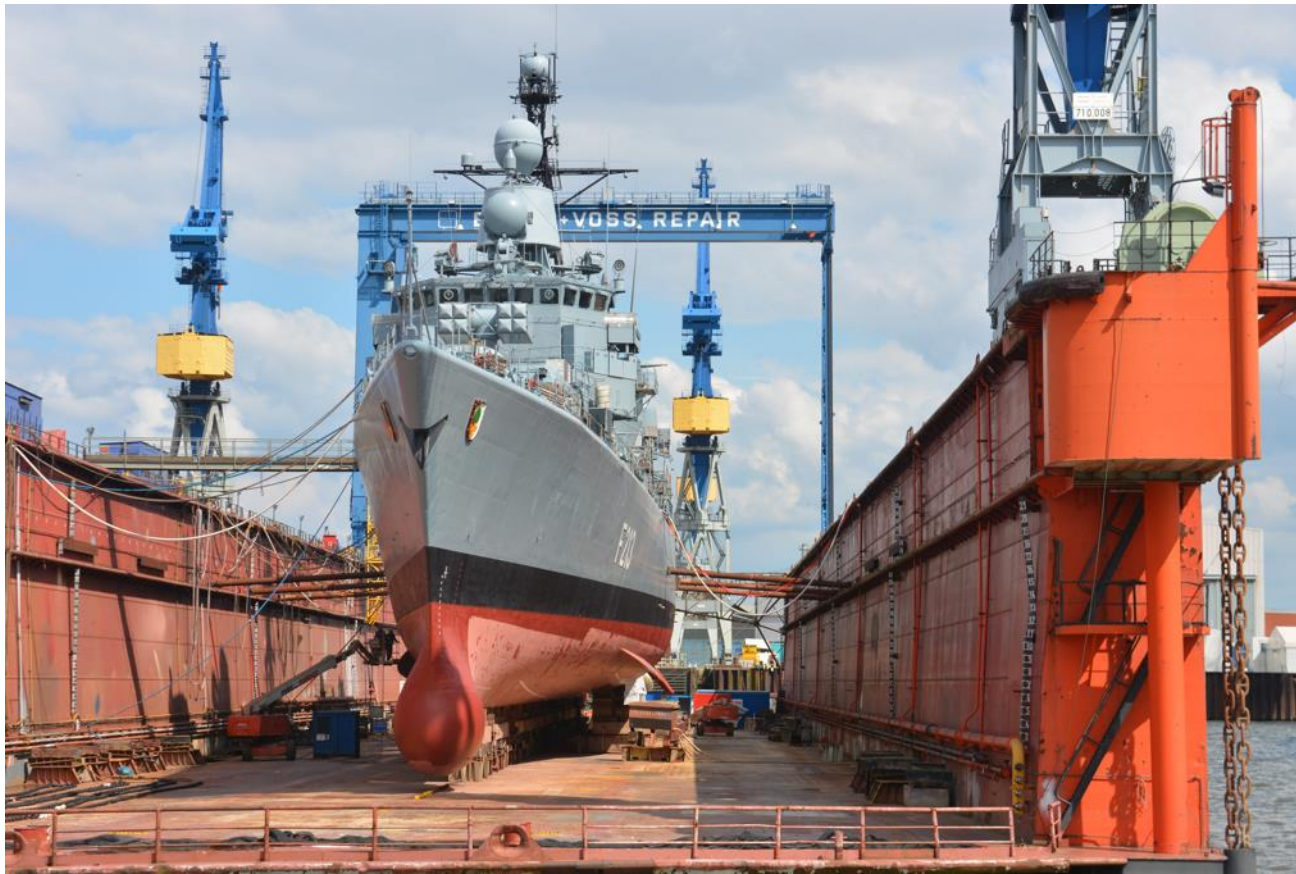
The ENISA Report

Published March 21, 2023

Prime threats affecting the transport sector:

- Ransomware attacks
- Data related threats
- Other Malware
- Denial-of-service (DoS), distributed denial-of-service (DDoS) and ransom denial-of-service (RDoS) attacks
- Phishing/spear phishing
- Supply-chain attacks

Why is the maritime industry so vulnerable?



- Poorly maintained and aging equipment
- Low level of cyber security maturity and awareness
- Lack of cyber security staff
- Potentially serious safety issues as a result of cyber attacks
- Critical nature of Maritime Sector for global economy and security
- Various threat actors targeting it

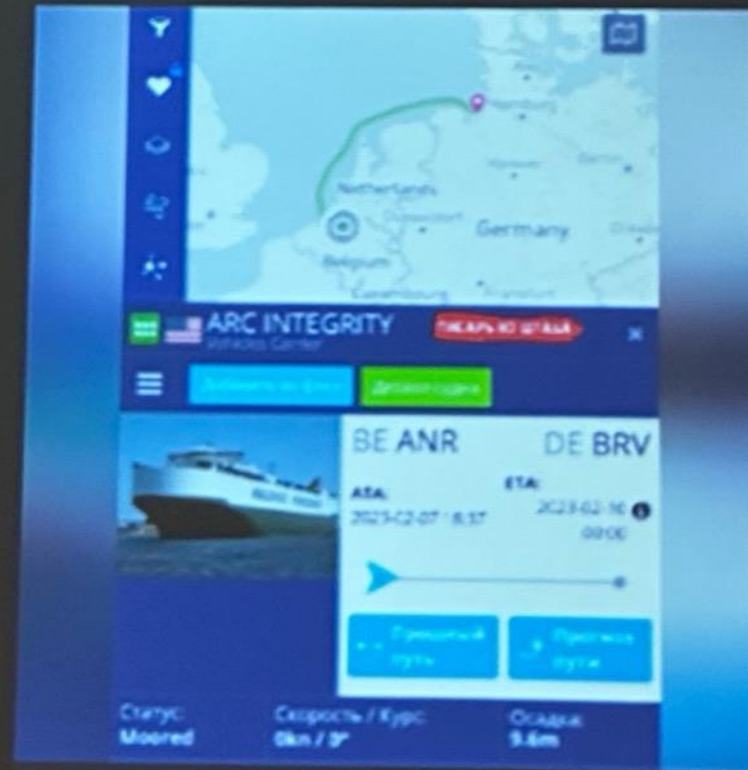


KILLNET CHAT

10 050 members, 802 online



Forwarded from Clerk from the Headquarters



» The M2 Bradley armored personnel carrier in the transport and cargo vessel ARC Integrity (USA) is now in the Belgian port of Antwerp. the intermediate point is the port of Bremerhaven, Germany. It is on this ship that Bradley goes to the crests. What prevents our DRG from sinking a bulk carrier? (avenger the Novorossiysk in 1955m) Technically nothing. Combat...

Russian hackers block websites in retaliation for Leopard tanks

June 14, 2023



Rotterdam harbour. Photo: Quistnix via Wikimedia Commons

Pro-Russian hackers have been blamed for forcing the websites of Dutch commercial ports offline last week.

Groningen Zeehaven's site was down all weekend, while Amsterdam, Rotterdam and Den Helder were all offline for several hours on Tuesday.

1:44 M LS LP •

NoName057(16) Eng
1.5K subscribers

2 1

272 6:58 AM

Leave a comment

A screenshot of a website with a red background. It features a large brown bear with its mouth open, showing its teeth. To the right of the bear is a large white paw print. The text on the website is in Russian and mentions 'portquebec.ca'.

We sent to rest the website of the Port Authority of Quebec:

✗ <https://check-host.net/check-report/f874c8ek4b1>

👉 Subscribe to NoName057(16)
🐻 Join our DDoS-project
⚠️ Subscribe to reserve channel

🇷🇺 Victory will be ours!

1 1

255 7:46 AM

Leave a comment

A screenshot of a website with a red background. It features a large brown bear with its mouth open, showing its teeth. To the right of the bear is a large white paw print. The text on the website is in Russian and mentions 'portquebec.ca'.

MUTE

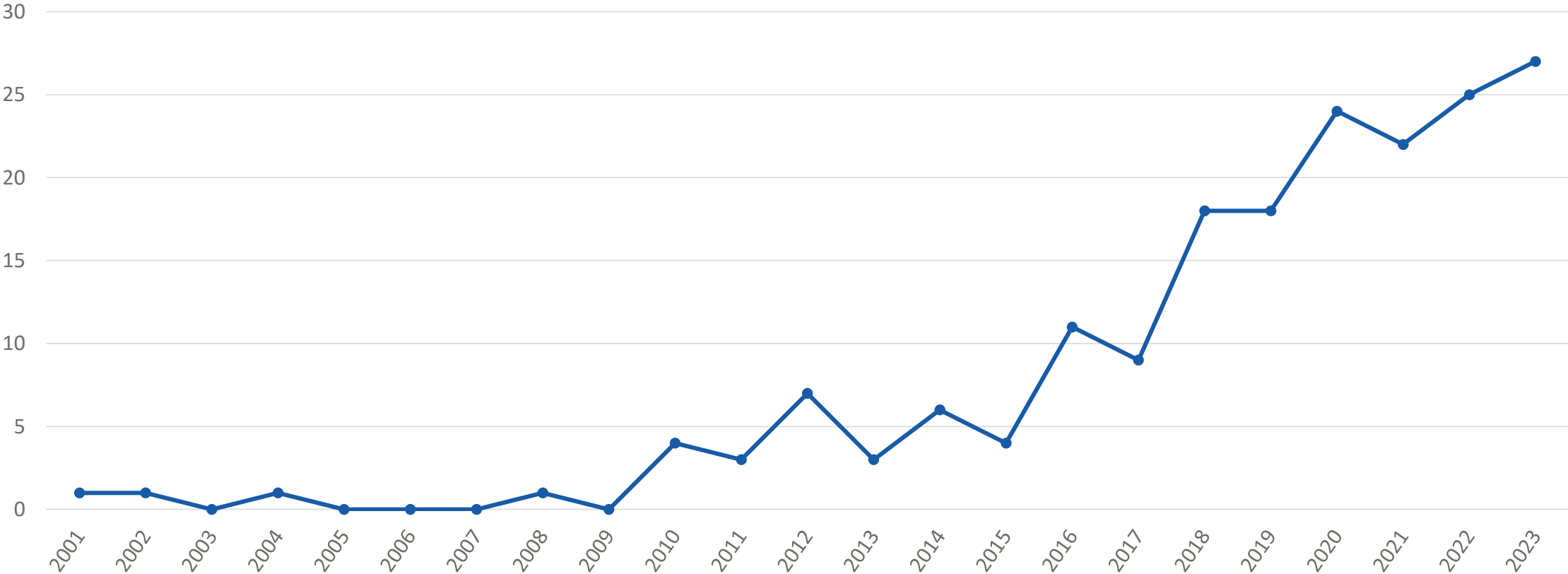
MCAD Android/iOS App

- Our MCAD web application also has a mobile app available for both iOS and Android.
- You can find it on Google Play or on the Apple App Store.



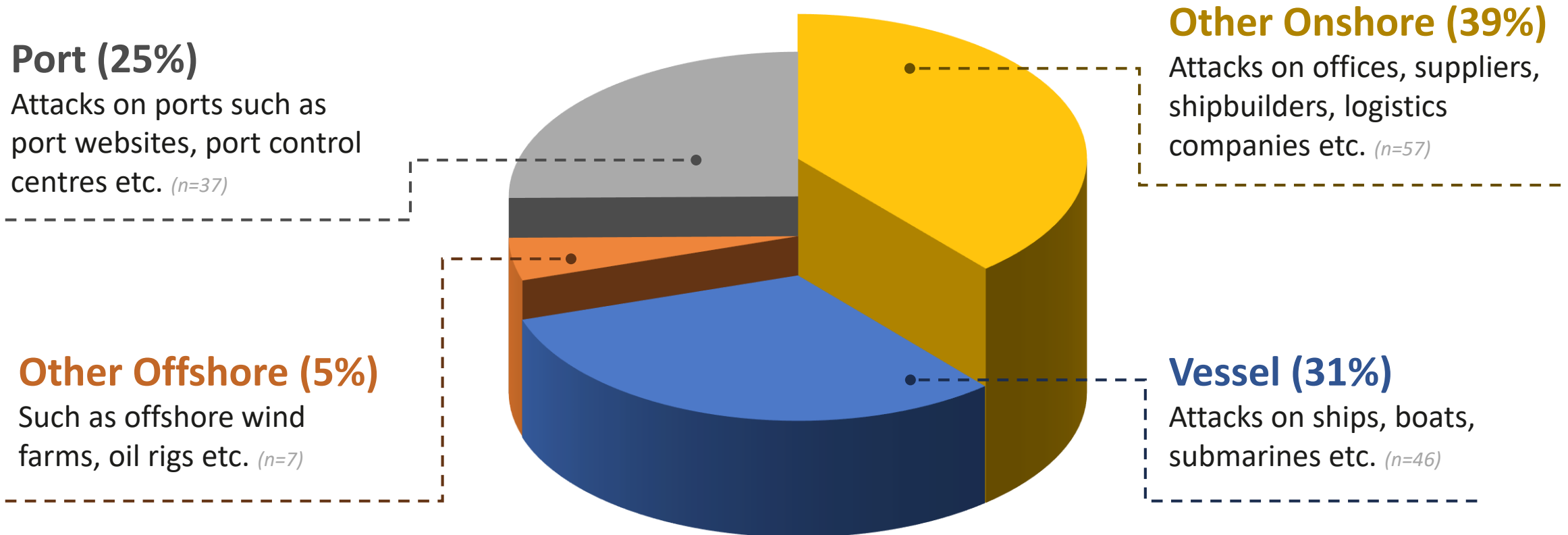
Maritime Cyber Incidents by Year

BETWEEN YEARS 2001 AND 2023 (INCLUSIVE)



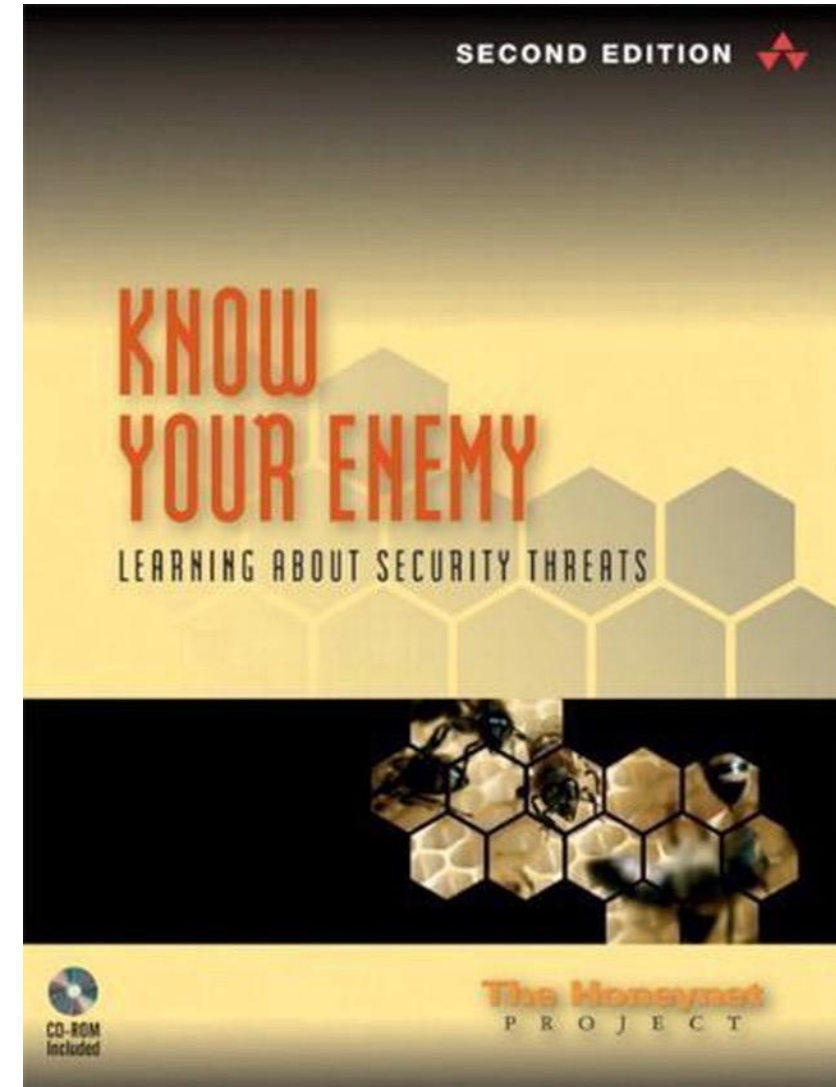
Maritime Cyber Incidents by Victim Type

BETWEEN YEARS 2001 AND 2023 (INCLUSIVE)



Ship Honeytrap

- A honeynet is a network set up with intentional vulnerabilities hosted on a decoy server to attract hackers
- So a honeynet consists of one or more honeypots









Maritime Cyber Incident Simulations

- Maritime Cyber Incident simulations will be developed to enhance security awareness, train participants in correct response procedures and study human factors in these types of scenarios.
- These simulations will include:
 - Crew simulations using facilities at the Maritime Institute on Terschelling
 - Tabletop exercises for executives, conferences, etc.
 - Large scale exercises utilising a combination of the above across multiple sites



