

Maritime Cybersecurity – The Business of Protection

Dr Kimberly TamLecturer in Cybersecurity



Ships and technology



- Ships have different functionalities
- Ships are equipped with different systems
- Ships travel through different locations
- Attackers have different interests
- Attackers have different resources levels

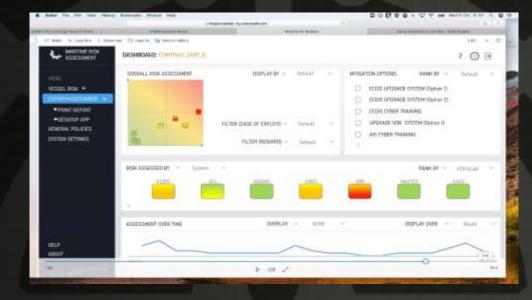
Each vessel has a dynamic risk profile that changes depending on circumstances and different vulnerabilities







MaCRA uniquely provides dynamic, multi-dimensional risk assessment tooling, uniquely addressing IT and OT elements, but also taking into account environment and physical movements.





Test cases

Pulled in expertise in cargo ship and container port operations







Protecting Business

- Increase situational awareness
- Informing decision attempting to quantify risks and help prioritise
- Looking at large picture & being able to define the large picture

Dr Kimberly Tam

Lecturer in Cyber Security and Cyber-SHIP Lab Academic Lead

Thank you





Cyber This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 833389.

https://www.plymouth.ac.uk/research/maritime-cyberthreats-research-group

