European Maritime Safety Agency

<u>Cyber Threats</u>: Reviewing and updating your Port Facility Security Assessment

Part A: Cyber and security concepts Agenda Item 4

Luca GARGANO: Project Officer for Maritime Security

Ruben PANES: Project Officer for Port State Control and Environment.

Lisbon / 26th November 2019



"The next generation of terrorists will grow up in a digital world, with ever more powerful and easy-to use hacking tools at their disposal."

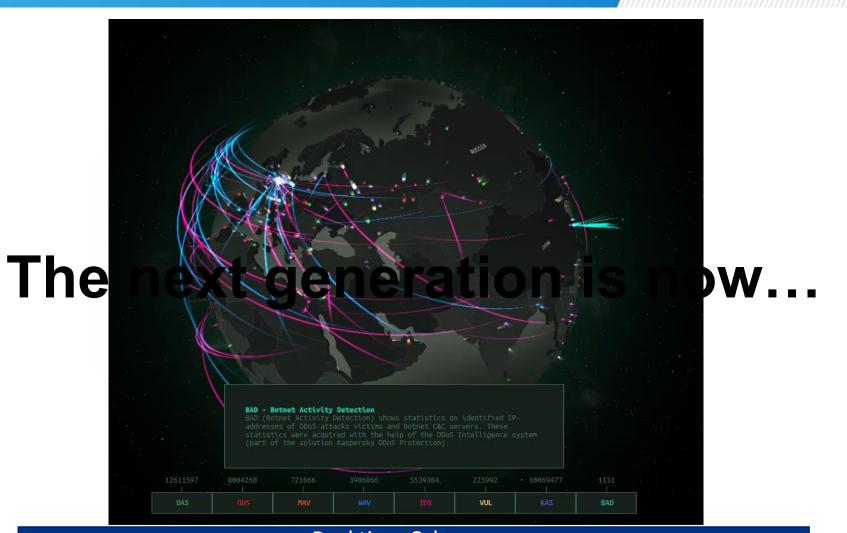


Dr Dorothy E. Denning Born: 1945 Cybersecurity pioneer PhD in Computer Science

EMSA

Cybersecurity Terminology

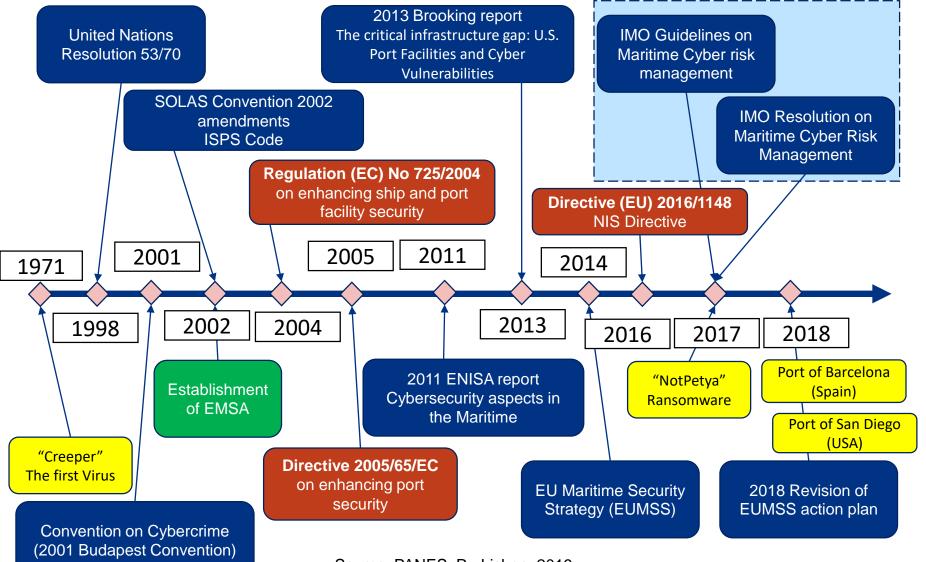
EMSA



Real time Cybermap. https://cybermap.kaspersky.com/ Source: AO Kaspersky Lab. Based on data from Kaspersky

Maritime cybersecurity timeline

EMSA



Source: PANES, R., Lisbon, 2019



POLICIES **RISK MANAGEMENT** NETWORKS **BEST PRACTICE** FM UTER ASSESSME PORT FACILITY SEC R Y CYBE INTEGRI PROTE CTION **IALITY** ILITY SECURIT PORT HA(ARDS SEC --RADIO SYSTEMS



POLICIES **RISK MANAGEMENT** NETWORKS **BEST PRACTICES** OMPUTER SYSTEMS TACKS Y SECURITY ASSESSME FACILII **ME CYBERSE** INTEGRITY PROTECTION Y SECU SA SEC RDS F ERABILITIES ()NRADIO SYSTEMS



End of Part A

"If you think cryptography is the answer to your problem, then you don't know what the problem is."



Dr. Peter Neumann Born: 1932 Cybersecurity pioneer