

# MedPORTS Forum 2019

## *Cybersecurity in the maritime sector*



ceis

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Manager

# COSCO Shipping Lines Falls Victim to Cyber Attack

TECHNOLOGY NEWS SEPTEMBER 28, 2018 / 12:38 AM / 9 MONTHS AGO

## Port of San Diego hit by ransomware attack

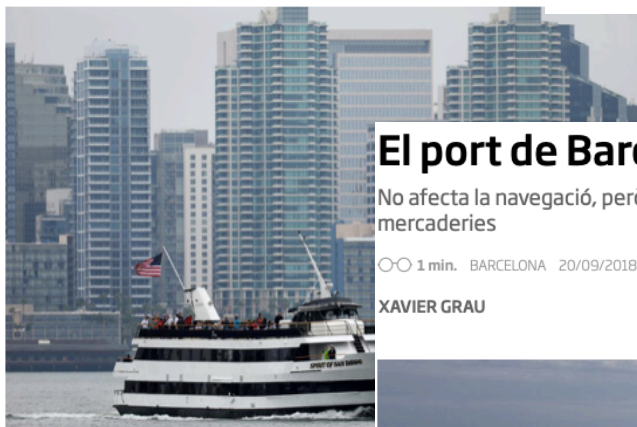
1 MIN READ



Image Courtesy: Kees Torn

COSCO Shipping Lines confirmed that it has been hit by a cyber attack impacting its internet connection within its offices in America.

As such, local email and network telephone were not working properly and the company decided to shut down the connections with other regions for further investigation.



## El port de Barcelona pateix un ciberatac

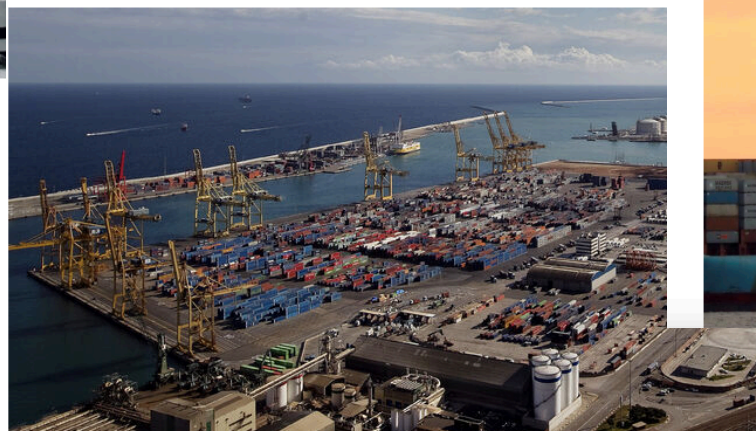
No afecta la navegació, però sí que retarda la càrrega i descàrrega de mercaderies

1 min. BARCELONA 20/09/2018 13:19

XAVIER GRAU

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Comparteix



Imatge d'arxiu del port de Barcelona / PERE TORDERA

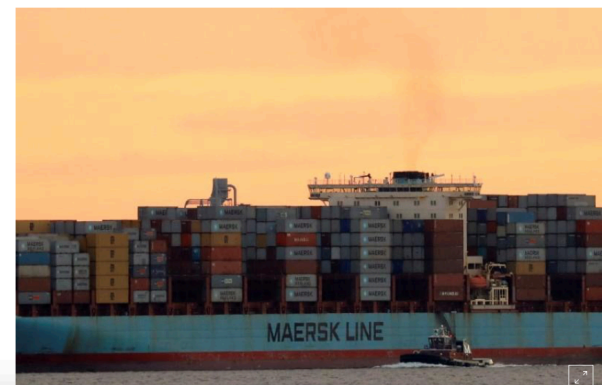
## Maersk says global IT breakdown caused by cyber attack

Jacob Gronholt-Pedersen

3 MIN READ



COPENHAGEN (Reuters) - Shipping giant A.P. Moller-Maersk (MAERSKb.CO), which handles one out of seven containers shipped globally, said the Petya cyber attack had caused outages at its computer systems across the world on Tuesday.

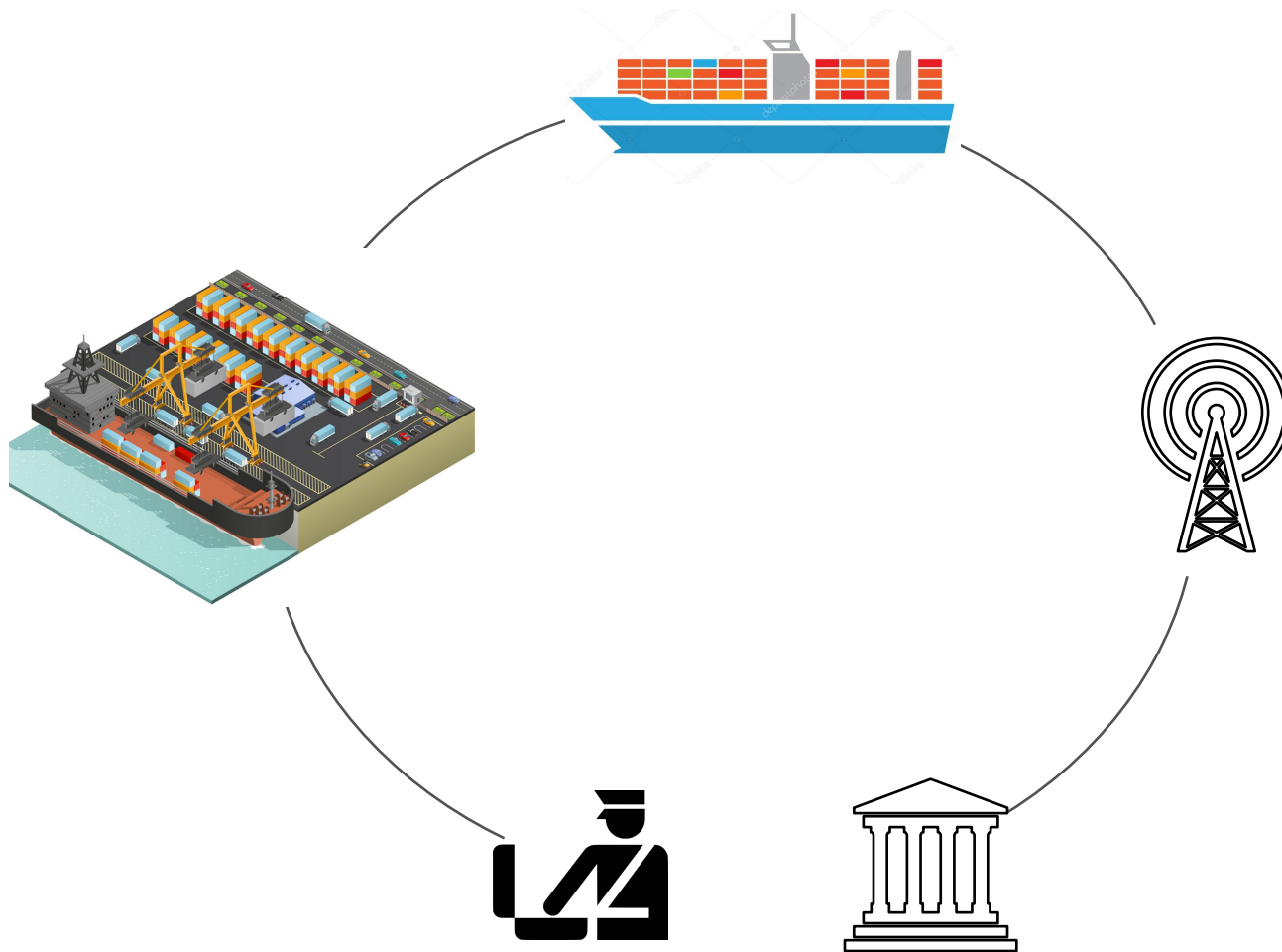


# Challenges for the smart port

- **Risk exposure** - Low-probability, high-impact incidents
- **Detection** - Complexity of the infrastructure and environment
- **Supply chain** - Increasing number of actors and external providers
- **Complexity** - Ships & ports use the most advanced technology
- **Security culture** - Including cyber in the maritime security culture



# Vulnerabilities across the whole value chain



# Aggravating factors

- **Human factor** - Reduced crews and lack of skilled profiles
- **Technology** - Use of standard systems with known vulnerabilities
- **Technical factor** - Short life-cycles of IT
- **Operations** - Downsides of uncontrolled openness

# Security measures

- **Securing *by design*** maritime equipment, ICS and architectures
- **Managing access rights** via authentication solutions
- **Adopting a dynamic cybersecurity posture**
- **Training and education** crews and (skilled) staff

# Policy driven initiatives



- **International** - Resolution MSC.428(98)



- **European** - Network and Information Security Directive



- **National** - Denmark 2018 maritime cybersecurity strategy



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