Welcome

to this 4th Happy Hour focusing on

Technological aspect of risk and resilience

The webinar will begin shortly Please mute your microphone and swith off your video camera During the webinar please type all your questions in the chat box Q&A is scheduled at the end of the seminar to answer them



Quiz

At the end of the event, we will organize a quiz using Kahoot!

You have two options to use this tool:

- Download the Kahoot! app (free) on your phone or tablet (App store or Play store) and enter the game PIN code you will be given
- Surf to <u>https://kahoot.it/</u> in your web navigator and enter the game PIN code while entering the site. No registration required.

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Prof. Dr. Christa Sys Holder of the Chair BNP Paribas Fortis Transport, Logistics and Ports



Welcome @participants HH4 (85 registrations)





GOAL: creating resilient maritime ecosystem

"to match supply and demand globally, efficient and effective cargo, information and financial flows are interconnected in a variety of multi-layered networks linking all actors (B2B, B2G) (living components) and infrastructure (e.g. port, hardware,...) (non-living components) whilst reducing costs, improving (operational) efficiency, ensuring sustainability, complying with regulation and simultaneously improving customer satisfaction (e.g. reliability) to retain or increase market share"





Risk vs. resilience

- Risk
 - a situation involving exposure to danger (threat)(Oxford dictionary)
 - the combination of the probability of occurrence of an event and its negative consequences (Holton, 2004).
 - With respect to supply chains, a risk could be any factor that obstructs the flow of information, materials, and products from the supplier to the

Resilience

- the capacity to recover quickly from difficulties (Oxford dictionary)
- means the ability to anticipate, prepare for, and *adapt* to changing conditions and *withstand*, *respond to*, and *recover* rapidly from disruptions
- the ability of a system to return to its original state or move to a new desirable state after being disturbed (Christopher and Peck, 2004)





Risks in maritime ecosystem



World Economic Forum





It will never happen...



Titanic





Theme: risk & resilience From the survey (30): What risks in the maritime ecosystem is your company most confronted with





ICT disruptions

Hackers compromise Mimecast's Microsoft authentication

Believed to be same hackers who attacked SolarWinds





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Amazon 'thwarts largest ever DDoS cyber-attack'



Amazon says its online cloud, which provides the infrastructure on which many websites rely, has fended off the largest DDoS attack in history.

Cosco Shipping to fix another hacking issue | Robban ... https://assafinaonline.com/.../cosco-shipping-to-fix-another-hacking-issue -

8/03/2021 · **Cosco Shipping**, the world's third largest containerline, is urgently trying to fix another **hacking** issue that has ripped through many of its staff's email systems over the weekend. A Brazilian hacker who goes by the name of LORDBR hacked into **Cosco**'s email system on Saturday.

Cyber Attack on COSCO - Cybersecurity Insiders

https://www.cybersecurity-insiders.com/cyber-attack-on-cosco -

25/07/2018 · **COSCO** US, a **shipping** agency having its headquarters in Shanghai, China is reported to have been hit by a cyber attack on Tuesday this week. The company has issued a press statement to its customers which confirmed an attack on its digital assets affecting the ocean water carrier's communication in the American region only.

E3100A16C20Data Breacher 2202E6F6163686573204087 01Cyber Attack696E4 106564207368

Belgium suffers major cyberattack

By Georgi Gotev | EURACTIV.com

🛗 May 5, 2021



The hackers that attacked a major US oil pipeline say it was only for money - here's what to know about DarkSide



The hackers that attacked a major US oil pipeline say it was only for money - here's what to know about DarkSide

Fire at French data centre knocks out millions of websites

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Author: Naveen Goud

....more risk with nextgen technology

Artificial Intelligence AI (safety)

- important driver of change in many industries, but also comes with the greatest future risk potential (Allianz Risk Barometer)
- Both the **frequency** and the **seriousness** of future AI failures will steadily increase (Yampolskiy & Spellchecker, 2018)

"If you think technology can solve your security problems then you don't understand the problems and you don't understand the technology" (Schneider)







Technology risk management plan? 75%



Profile

Within the technological risk, which aspect were you specifically confronted with:

Logistic service... Terminal operator Consultancy Shipper Education Financial institute Other Shipping agent Hinterland operator Carrier Customs

IT



Security threats (malware, ...) Infrastructure risk (failure of... Operational risk (disrupting cor... Data loss

Architecture risk (IT structure... Capacity (overloaded network... Budget risk (IT programs that g... Innovation risk (associated with... Resource risk ((un)skilled... Strategy risk (linked with a... Next generation technology like...



(impact) technical risk

What technical risk did you or your company have to deal with?



Where was the impact felt?



Program

Time	Торіс
17.00-17.15	Welcome by Prof. Christa Sys, Holder of the BNP Paribas Fortis Chair on Transport, Logistics and Ports at the University of Antwerp
17.15-17.45	 Pitches Technological risk and resilience from a carrier, port and trader perspective' Rudi Vander Eyken – IT Manager @Euronav Nicolas Maes – Business Developer @Port+ Patrick Putman – CIO @Manuchar
17.45-18.30	'Cyber Security: A board and C-level topic' by Dr. Jan De Blauwe, Chief Information Security Officer, BNP Paribas Fortis
18.30-18.40	Group discussion (based on preliminary survey)
18.40-18.55	COVID Safe Happy Hour – Beer quiz (kahoot)
18.55-19.00	Closing word by Guy Haesevoets, BNP Paribas Fortis



Pitches



Rudi Vander Eyken IT Manager @Euronav



Nicolas Maes Business Developer @Port+





Keynote



Dr. Jan De Blauwe CISO @ BNP Paribas Fortis Chairman Belgian Cyber Security Coalition



Group discussion

During presentations

- Collaboration (?improve)
- Connection
- (cyber security) coalition
- Standards
- Band width
- Data governance
- Risk based approach



Do you find it difficult to meet the technological changes these times?



Do you find it difficult to meet ICT infrastructure innovations these times?

If you view technology (including AI, Internet of Things, robotics) as an opportunity instead of the disruptor and/or risk to be managed, which

Opportunities of technologies





Do we, the maritime ecosystem, need additional (ICT) innovations (e.g. reduce the vulnerability of automated, autonomous or self-learning machines) to create a resilient maritime ecosystem? If yes, which one?

Next to 'yes'/'no':

- no need for additional technology, just need for data transparency and reliability
- collaborative innovation (and cyber resilience connected to collaborative)
- Data-sharing infrastructure and standards cross modes and connecting the hinterland as well
- Connecting the EU's largest ports



BNPPF Port Co.innovation Happy Hour



Creative netwerking drink

- HH1: Wout Mampaey Beerbag
- HH2: Steve Snauwaert, Brouwerij Halve Maene
- HH3: Joris Brams, Konings nv
- HH4: (Beer)Quiz (via Kahoot)





HansDH



Closing Guy Haesevoets Director Corporate Banking







