

ASSESSING THE EFFECTIVENESS OF CYBERSECURITY TRAINING AND RAISING AWARENESS WITHIN THE MARITIME DOMAIN

M. Canepa, F. Ballini, D. Dalaklis, S. Vakili

World Maritime University (Sweden)



Cyber security in maritime domain

In recent years, the use of digital means is rapidly expanding throughout the whole world and the maritime industry is not an exception;

Shipping companies are relying on a much-extended number of computers and Information Technology (IT) applications to effectively support their business activities.

This has increased the risk of potential cyber-attacks that at a minimum could disrupt normal business activities



Research objective:

to illustrate and analyze the main challenges relating to maritime cybersecurity training and the use of the Cyber-range as solution

Question:

How to increase the effectiveness of training on computer security and increase awareness in the maritime domain?



Methodology:

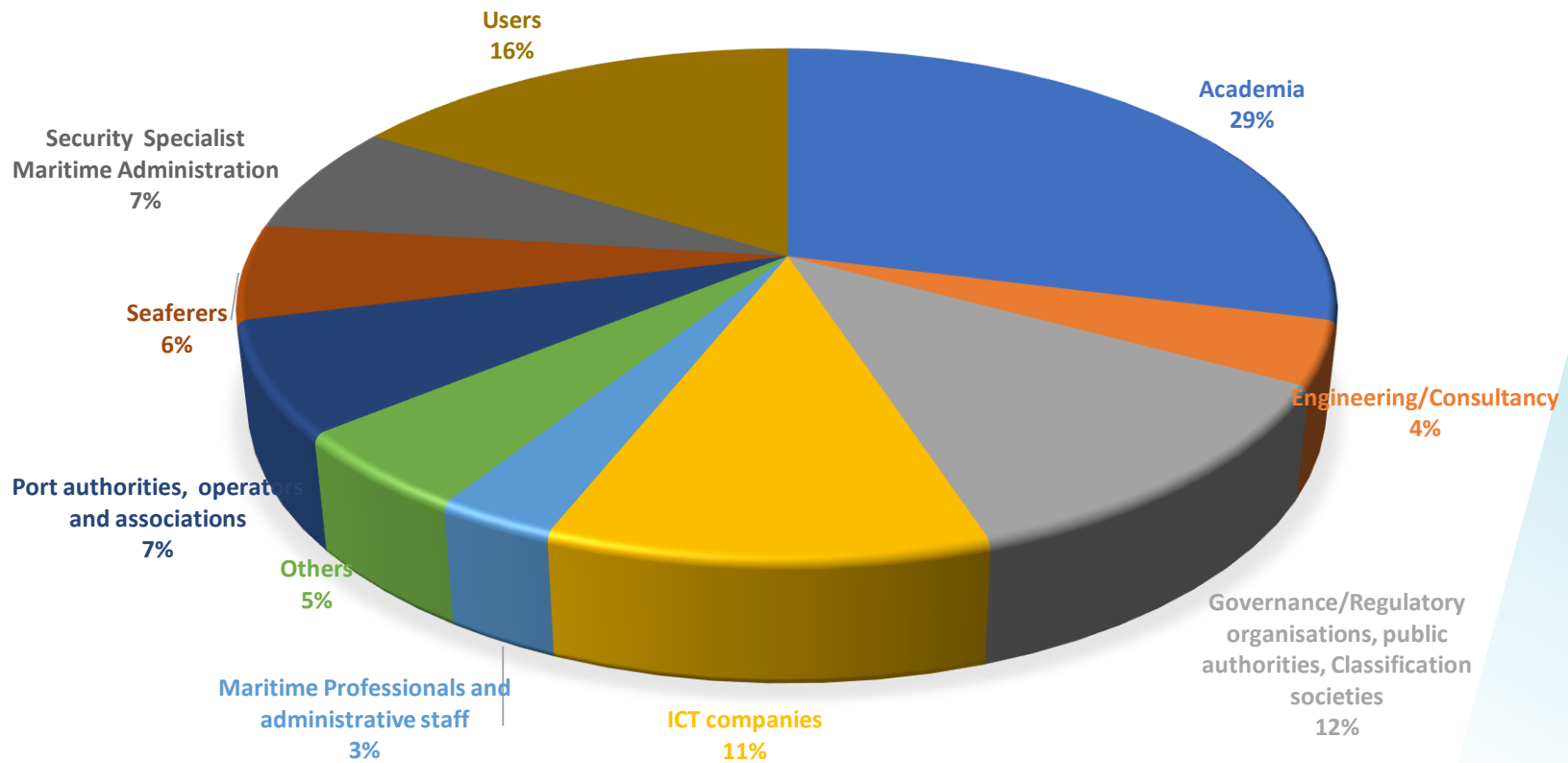
Qualitative approach: a literature review, an analysis of the target groups that will be involved in the training

Quantitative approach: for analyzing the results of the first implemented LMS training (composition of participants - target groups and online questionnaire in December 2020).



Results

TARGET GROUPS PARTICIPANTS



Results

The training has gained more knowledge applicable to your work?

- 58% of the participants fully agree that the training has gained more knowledge applicable to their work
- 30% agree while the remaining
- 12% are neutral

Among the topics addressed, the most appreciated were the **case studies of maritime cyber attack** and **how to countermeasure in the organizations.**

Conclusion

Training and awareness should be tailored to the appropriate levels for different figures in the maritime community, both on board and ashore.

To respond to the growing need to increase safety levels, it would be necessary to create an awareness or training framework for personnel working in the maritime sector.

Thank you

