Advanced Cyber Security Simulation Platform for Preparedness Training in Aviation, Power Grid and Naval Environments

PROJECT **BACKGROUND**

Global cyber-attacks are increasing in both sophistication and scale. As a result, it is quite hard to forecast, detect, mitigate, but also to recover from them. Such incidents reveal the extent of threat to which our critical information infrastructures (CIIs) and information and communication technology (ICT) systems are exposed to. Cyber-attacks are expected to have a growing negative economic and societal impact in the next decade and should therefore be considered as global risks.

The FORESIGHT project aims to develop a federated cyber-range solution to enhance the preparedness of cyber-security professionals at all levels and advance their skills towards preventing, detecting, reacting and mitigating sophisticated cyber-attacks. This is achieved by delivering an ecosystem of networked realistic training and simulation platforms that collaboratively bring unique cyber-security aspects from the aviation, smart grid and naval domains. The proposed platform will extend the capabilities of existing cyber-ranges and will allow the creation of complex cross-domain/hybrid scenarios to be built jointly with the IoT domain.

PROJECT **OBJECTIVES**

CREATE a state-of-the art platform that will greatly extend the capabilities of existing cyber-ranges by allowing them to be a part of a cyber-range federation.

DELIVER training curricula aimed at cyber-security professionals to implement and combine security measures in innovative ways.

DEVELOP realistic and dynamic scenarios based on identified and forecasted trends and needs in terms of cyber-attacks and vulnerabilities.

INCREASE the dynamics of training and awareness methods in order to match or even exceed the rate of evolution of cyber-attackers.

IDENTIFY the impact of cyber-risks and the most appropriate security measures to protect valuable assets, minimise costs and recovery time.

IMPROVE the number of talented cyber-security professionals to meet the industry's current needs at all levels (from junior to senior).

FORESIGHT

PROJECT **FACTS**

DURATION
10/2019 to 03/2023

PROGRAMME
H2020-SU-DS-2018
SU-DS01-2018
Innovation Action

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