FORESIGHT

Development of a federated CyberRange solution

- FORESIGHT aims to develop a federated CyberRange 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, power grids and naval domains.

AVIATION **POWER GRID** **NAVAL**

Ability to create a complex, accurate and realistic environment to train cyber security professionals in an innovative way

- The proposed platform will extend the capabilities of existing CyberRanges and will allow the **creation of complex cross-domain/hybrid scenarios** to be built jointly with the IoT domain.
- Emphasis is put on the **design and implementation of realistic and dynamic scenarios** that are based on identified and forecasted trends of cyber-attacks and vulnerabilities extracted from cyber threat intelligence gathered from the dark web; this will enable cyber security professionals to rapidly adapt to an evolving threat landscape.

OBJECTIVES

1. **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 CyberRange federation
2. **DELIVER** training curriculum aimed at cyber security professionals to implement and combine security measures in innovative ways
3. **DEVELOP** realistic and dynamic scenarios based on identified and forecasted trends and needs in terms of cyber-attacks and vulnerabilities
4. **INCREASE** the dynamics of training and awareness methods in order to match or even exceed the rate of evolution of cyber-attackers
5. **IMPROVE** the preparedness of cyber security professionals and the availability of talents (from junior to senior)
6. **IDENTIFY** the impact of cyber risks and the most appropriate security measures to protect valuable assets, minimise costs and recovery time

OUR ROLE IN THE PROJECT

Our CyberRange is an **advanced training and simulation solution** that allows you to easily model IT/OT systems composed of tens or hundreds of machines and **simulate realistic scenarios** including real cyber-attacks.

The platform is open to interface with **external equipment** such as a physical industrial control system, a hardware traffic generator, a real physical or virtual system, to meet the constraints of a **complex environment**.

An **international Airport in Europe** is currently reproduced in our CyberRange for security practitioner to be **trained on real systems.** We also model **access control, management of public announcement and flight displays systems**.

HORIZON 2020: ec.europa.eu/programmes/horizon2020
FORESIGHT: http://foresight-h2020.eu
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 833673

Programme co-funded by the EUROPEAN UNION

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