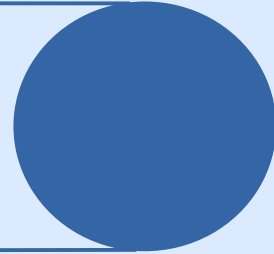# AR THREAT ST

Cyber-Security Threats and Threat Actors Training

Assurance Driven Multi-Layer,

end-to-end Simulation and Training

## JANUARY 2019 – ISSUE 1

Newsletter

THREAT-ARREST Overview

THREAT-ARREST is funded by the European Commission Horizon 2020 programme under Grant Agreement No. 786890, launched on September 2018.

It has a four-year duration and its main scope is to develop **an advanced training platform** incorporating **emulation, simulation, serious gaming** and **visualization** capabilities to adequately prepare stakeholders with different types of responsibility and levels of expertise in defending high-risk cyber systems and organizations to counter **advanced, known** and **new cyber-attacks**.

The THREAT-ARREST platform will deliver security training, based on a **model driven** approach where **cyber threat and training preparation (CTTP)** models, specifying the potential attacks, the security controls of cyber systems against them, and the tools that may be used to assess the effectiveness of these controls, will **drive** the **training process**, and **align it** (where possible) with **operational cyber system security assurance** mechanisms to ensure the relevance of training.

The platform will also support **trainee performance evaluation** and **training programme evaluation** and **adapt training programmes** based on them. The effectiveness of the framework will be **validated** using a **prototype implementation** interconnected with real **cyber-systems pilots** in the areas of smart energy, healthcare and shipping, and from **technical, legal** and **business perspectives**.
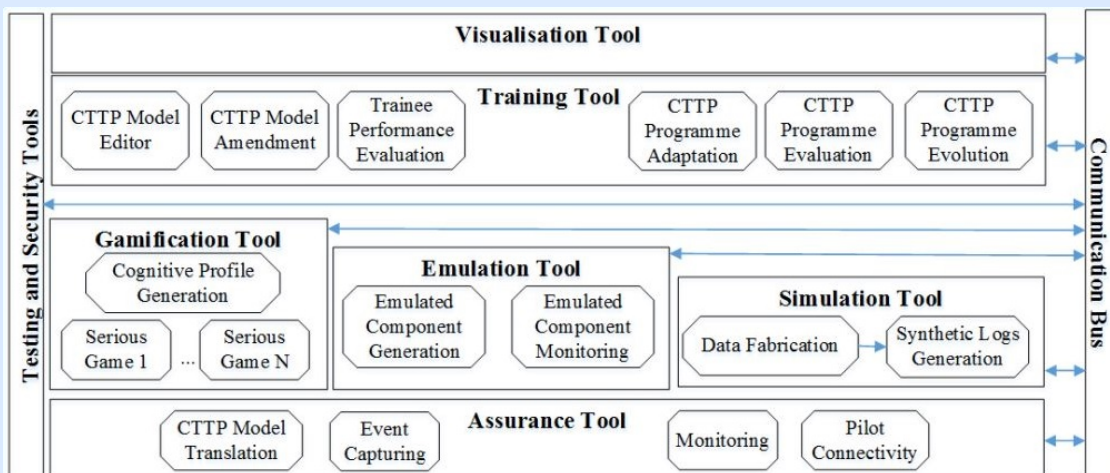
The THREAT-ARREST platform
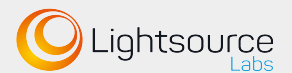
THREAT-ARREST Kick-off meeting

The THREAT-ARREST **physical kick-off meeting** was successfully held on September 19th, 2018 at the premises of FORTH in Heraklion – Crete, Greece!!

THREAT-ARREST Publicity

- ✔ Bird&Bird published [a press release](#) about the THREAT-ARREST project on the company's website
- ✔ The Technical University of Braunschweig updated [its workgroup's website](#) with news of its participation in the project
- ✔ They also presented the project's poster at the HiPEAC conference, January 2019
- ✔ Prof. Takis Varelas from DANAOS shipping company mentioned THREAT-ARREST as related to maritime training and awareness regarding healthcare issues onboard their vessels

Publications

Jihane Najar and Vassilis Prevelakis , **"A Secure and Efficient File System Access Control Mechanism (FlexFS)"** in the International workshop on Information & Operational Technology (IT & OT) security systems IOSec, September 2018

Mohammad Hamad, Mustafa R. Agha , and Vassilis Prevelakis , **"ProSEV: Proxy-Based Secure and Efficient Vehicular Communication"** in 2018 IEEE Vehicular Networking Conference (VNC), December 2018.

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