SafeHorizon

Funded by
the European Union

SafeHorizon Project Overview

Project Overview

Call ID
HORIZON-CL3-2023-FCT-01-05 RIA

Budget
€ 3 998 925

13 partners from 11 countries

Duration
1.9.2024- 31.8.2027.

Who we are

Partners

ATHENA Research & Innovation Information Technologies

Data Centric

vicomtech
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

KEMEA

CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

Tampere University

Privanova
Research & Consulting

TU Delft

CYPRUS POLICE

C.I.H
CYBER INTELLIGENCE HOUSE

SCORECHAIN

POLICJA

Ethics Advisory Board Experts

Dr. Holger Nitsch

University of Public Services in Bavaria, Department for Policing, Director of Center of Excellence for Police and Security Research

Dr. Zvonimir Ivanovic

University of Criminal Investigation and Police Studies, Serbia

Dr. Helga Molbaek Steensig

European University Institute, Department of Law

Stakeholder Engagement and Community of Experts

SafeHorizon Community of Experts

- LEAs, CSIRTs, CERTs, and ISACs
- End-users, general public & society
- EU cyber security and security providers
- Practitioners and service providers
- Policy makers, institutions, and organisations

Our vision

Crime-as-a-Service (Caas)

CaaS represents a worrying evolution in the cyber threat landscape, transforming criminal activities into organised and commercialised enterprises. Similar to legitimate Software-as-a-Service (SaaS) platforms, CaaS offers on-demand illicit services such as malware rentals and fraud platforms. This shift lowers barriers to entry for cybercriminals, enabling individuals without technical skills to engage in activities like identity theft and payment card fraud through digital means. The consequence is a significant amplification of criminal operations' scale and impact.

Our Aim

SafeHorizon aims to tackle the emerging threat of Crime-as-a-Service (CaaS) by harnessing intelligence from various sources, including the clear web, deep web, dark web, public dumps, and law enforcement datasets. By integrating these data streams with machine learning technologies, the project seeks to extract actionable evidence for legal use.

Objectives

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1

Monitor CaaS platforms, associated services and malicious actors' arsenal and methods

SafeHorizon will monitor CaaS platforms from various threat actors to understand their modu operandi (arsenal, methods, motivation, strategies, and monetisation mechanisms).

2

Enable seamless collection of digital evidence, unique identifiers, and actionable intelligence from various sources

SafeHorizon will combine the collected information from the crawlers with malware samples, phishing emails, intelligence feeds, and private and proprietary datasets in order to extract features that will be used by ML and AI algorithms to generate actionable intelligence.

3

Correlation, attribution, & disruption aligned with EU norms and value

By monitoring the infrastructure, cryptocurrency transactions, and online presence and using various intelligence feeds beyond attribution, SafeHorizon will provide LEAs with actionable intelligence to facilitate the disruption of malicious campaigns and bring the perpetrators before the court.

4

Real time threat modelling and exposure assessment

SafeHorizon will provide suitable tools for real-time monitoring of threats, better-anticipating changes in risk and optimising risk management policies.

5

EU resilience and cyber sovereignty

By building technology made in the EU, SafeHorizon will reduce European dependency on allies and other third parties while also reducing the time until a vulnerability or an attack on EU infrastructures or critical services is notified to national authorities.

6

Guide responsible and replicable research in FCT, while creating targeted awareness campaigns (for victims) and dedicated training material for practitioners

SafeHorizon aims to create a research FCT hub that would allow vetted researchers to access curated datasets and trained models, allowing them to extend and improve results without the need to start from scratch or face legal constraints.

Impact

Impact

For LEAs, CSIRTs, CERTs and ISACs

SafeHorizon will develop tools to strengthen the capacity of LEAs, CSIRTs, CERTs and ISACs to tackle local and global criminal activity by identifying transnational criminal networks and marketplaces that enable the operation and monetization of CaaS.

For EU cybersecurity and security providers

SafeHorizon enhances the European Union's sovereignty in digital technologies by developing tools and technologies within its jurisdiction, enabling EU security providers to access reusable technology and actionable threat intelligence without reliance on external entities.

For service providers

SafeHorizon will provide an integrated dashboard showing to the service providers the potential risks and offering threat intelligence capabilities stemming from an in-depth view of the modus operandi of threat actors.

For policy makers

SafeHorizon research results will support policy makers, organisations and institutions to design and/or improve policies related to online crime and cybercrime prevention.

For end-users and society

SafeHorizon tools and research results will help lay people and LEAs fight online crime and cybercrime, and respond to a pressing public demand from families increasingly concerned about the risks of the internet for young people.

By disrupting malicious online campaigns, SafeHorizon will limit the cyber attacks on critical infrastructures, preventing access to necessary services (energy, communication, transportation, etc.), and thus, increase trust in using the cyber-physical services.

Clustering Management

LEA projects cluster

CC-DRIVER

01 CC-DRIVER

May 2020

LEA Project Cluster initiated

19 Projects

Over the course of 3 years

CYBERSPACE

02 CYBERSPACE

February 2023

CYBERSPACE took over the leadership

36 Projects

17 projects joined the cluster

SafeHorizon

03 SAFEHORIZON

September 2024

SafeHorizon took over the leadership

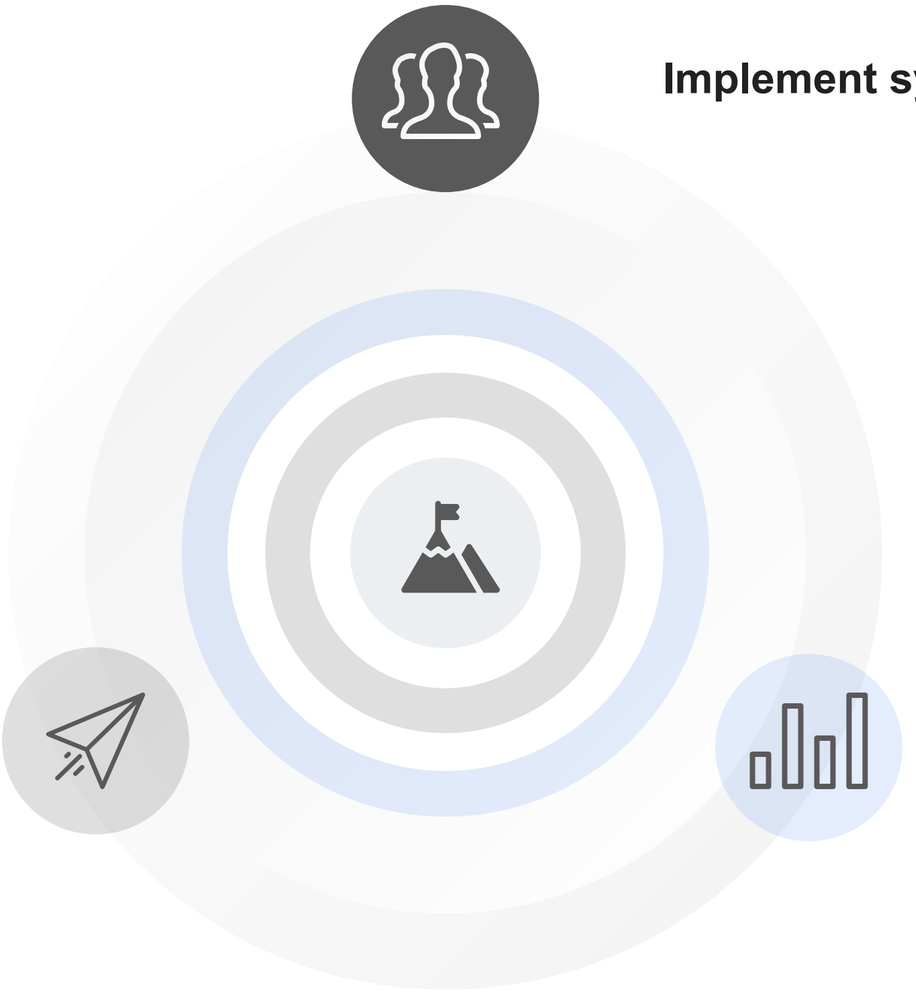
48 Projects

12 projects joined the cluster

COLLABORATIVE PLATFORM

Our shared purpose

Implement synergies



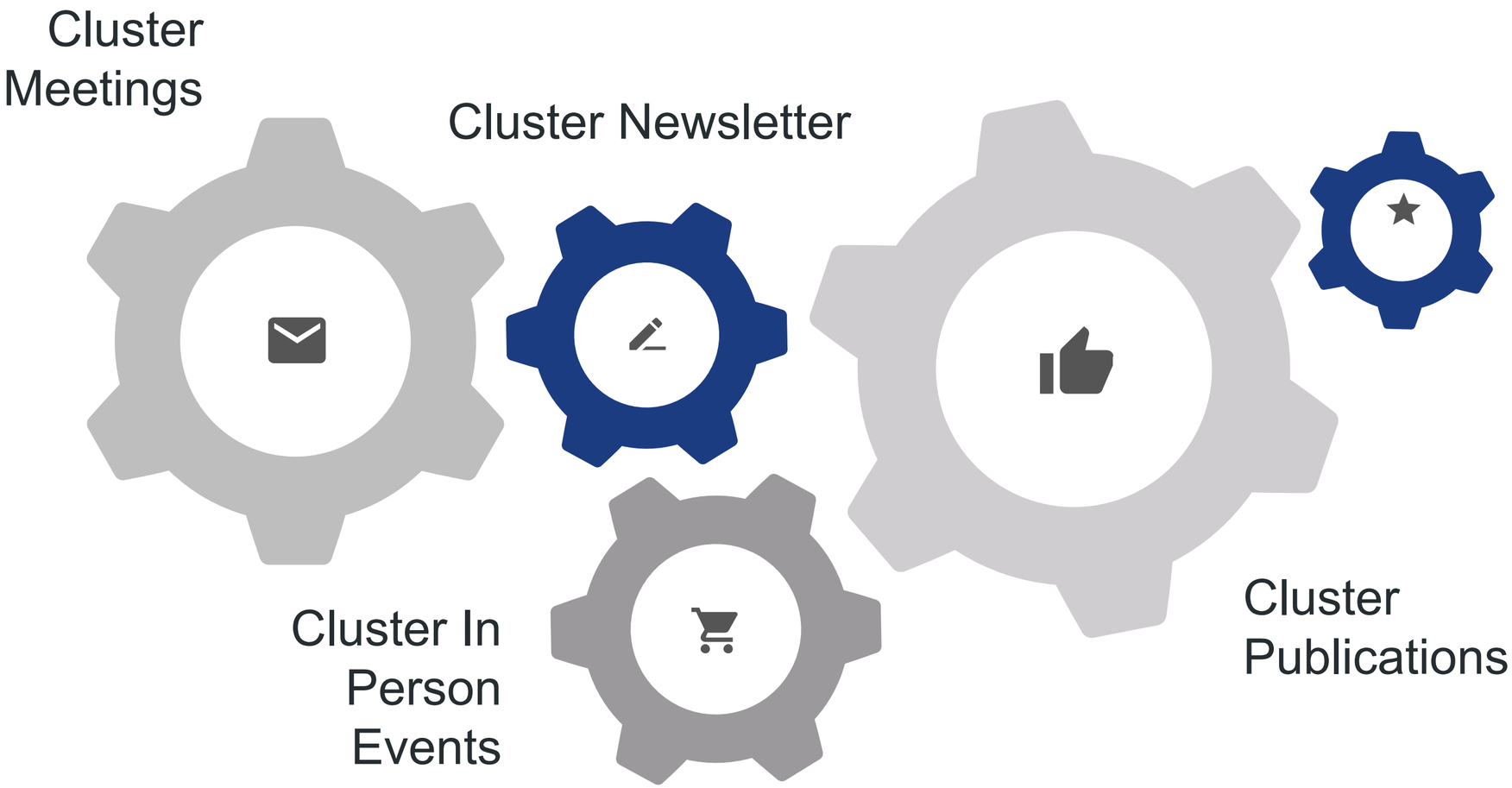
Exchange knowledge, resources, and best practices

Deliver added value to projects dissemination & exploitation activities

LEA projects cluster

LEA Projects Cluster is fast growing community: 48 projects / 200+ partners

Engagement, Communication & Visibility



Use Cases

Use cases

Monitoring transnational crime networks

Monitoring activities of actors in crime networks including ongoing malicious campaigns that may span across different jurisdictions and developing a set of dedicated crawlers which will provide insight and visibility of real-time activity of malicious online activity.

Criminal marketplace analysis

In order to assess the efficacy of the crawlers and the correlation engine, this use case is dedicated to the analysis of criminal marketplaces, and includes testing of the usefulness of SafeHorizon tools to identify crime networks and investigate their members.

Child sexual abuse and trafficking

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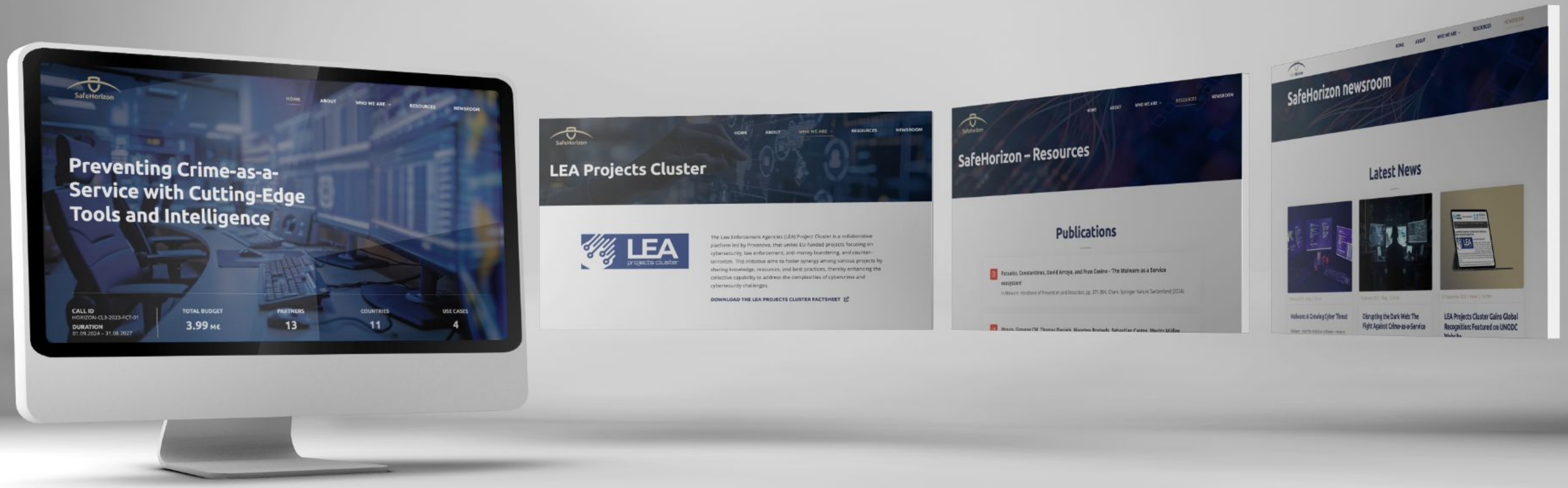
Malware-as-a-Service

Malware-as-a-Service (MaaS) is a business model under which cybercriminals provide access to malicious software and related infrastructure for a fee, and in this use case we monitor and analyse ongoing malicious campaigns that may target organisations or individuals.

Q&A

Visit our website and follow us on social media pages



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Get in touch

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Thank you!