An ITEA Security and Safety project

VESTA

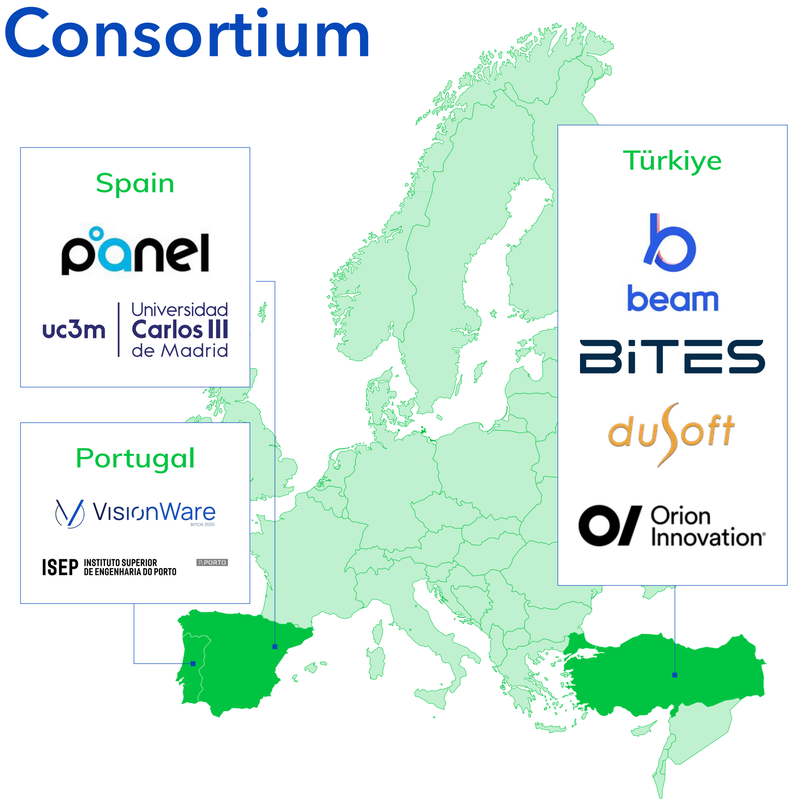
ITEA 4

Proactive protection against phishing-based ransomware

Project summary

VESTA aims to develop a European cybersecurity system to proactively protect systems against ransomware attacks. It combines multiple techniques such as AI/ML, data & knowledge extraction, anti-phishing, human behaviour analysis and sandboxing to build a multilayer ransomware attack mitigation platform capable of preventing, defending and remediating such attacks. Moreover, VESTA may also tackle the challenges related to the multi-language nature of phishing emails via collaboration between partners from different countries.

Consortium



Leaflet

SCAN ME

Website

SCAN ME

https://vesta-itea.com

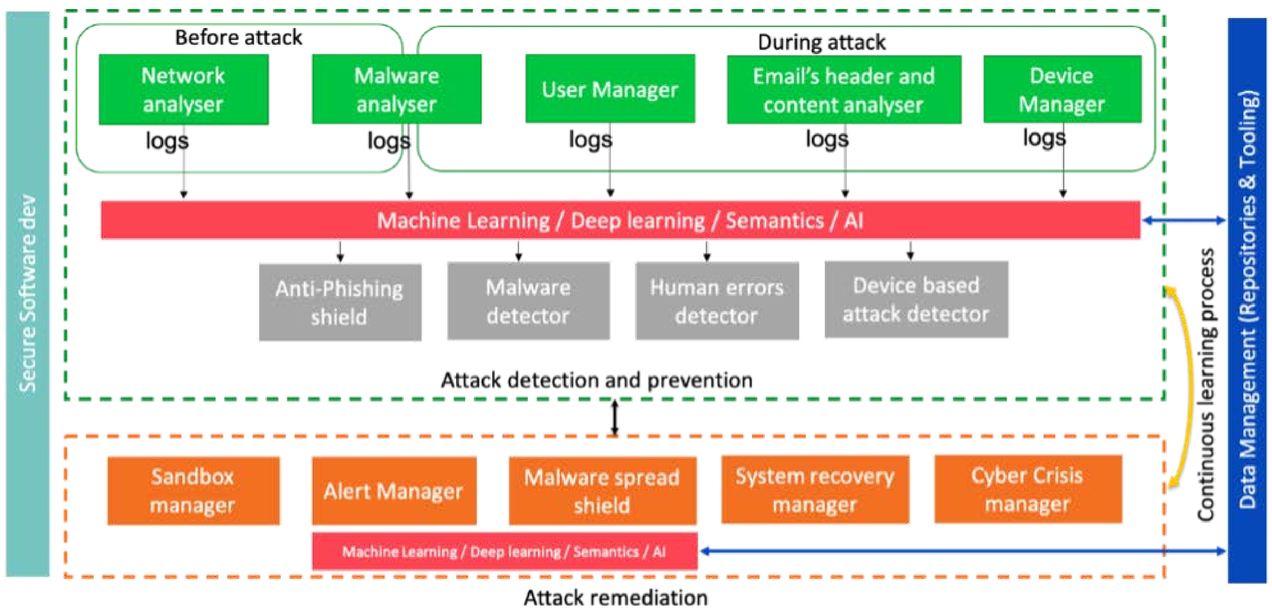
Project duration

January 2024 – December 2026

Expected key results / USPs

- Improved AI-driven detection – VESTA aims to achieve phishing and ransomware detection rates of up to 95% with less than 5% false positives, significantly outperforming current industry benchmarks.
- Faster threat response – The platform will reduce ransomware detection time by half compared to traditional systems, enabling earlier prevention and remediation.
- Enhanced human resilience – By integrating security awareness and behavior analysis, VESTA will lower user-driven phishing success rates through proactive training and early anomaly detection.

Vesta Platform for Phishing Protection



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