Vision
IRIS will deliver a framework that support European CERT and CSIRT networks detecting, sharing, responding and recovering from cyber-security threats and vulnerabilities of IoT and AI-driven ICT systems, to minimize the impact of cybersecurity and privacy risks, through a collaborative-first approach and state-of-the-art technology.

IRIS Architecture
- **Collaborative Threat Intelligence (CTI):** This module introduces Analytics Orchestration for supervising coordination between incident response and recovery; an Open Threat Intelligence interface for disseminating taxonomies of IoT and AI threats; and an intuitive Threat Intelligence Companion that serves as a key human-in-the-loop interface for collaborative incident response and threat intelligence sharing between CERTs/CSIRTs at both the municipal and national level.

- **Automated Threat Analytics (ATA):** This module extends existing intrusion detection tools with a novel threat detection engine for identifying specific IoT and AI attack vectors and includes digital twin honeypots for collecting attack telemetry against end-user systems reliant on these technologies.

- **Virtual Cyber Range (VCR):** This module is used for collaborative CERT/CSIRT training exercises based on real-world environment platforms, providing representative adversarial IoT & AI threat intelligence scenarios and hands-on training.

Project Facts
- **Duration:** 36 months (September 2021-August 2024)
- **EU funding:** €4,187,900.00
- **Pilots:** Barcelona/Spain, Tallinn/Estonia, Helsinki/Finland

**Project Coordinator:** INOV - Instituto de Engenharia de Sistemas e Computadores, Inovação, (INOV), Portugal

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