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English

IRIS: A platform to assess, detect and respond to vulnerabilities and threats in ICT networks

17/03/2022

Technology

As smart cities are developed and, as a result, platforms enabled for the internet of things (IoT) and artificial intelligence expand, new and complex threats to their security increase exponentially. The new IRIS platform will increase the security and privacy of these ICT-based systems and will respond to attacks through a collaborative approach.

ICT

Topic

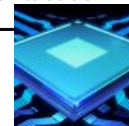
Artificial Intelligence

Internet of Things

The esCERT cybersecurity team of inLab FIB is participating in the Intelligence Threat Reporting and Incident Response System (IRIS) project. The project's aim is to develop a unique platform for the IoT, which, through artificial intelligence, will support centres that respond to IT emergencies (CERT and CSIRT). The platform will help to assess, detect, respond to and share information on threats and vulnerabilities in TIC systems. This support for European CERT and CSIRT networks will also enable a coordinated response to be provided to large-scale cross-border incidents. At the end of the project, the IRIS platform will be available, free of charge, to the European CERT and CSIRT.

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(MeliCERTes) with a module to support data protection and proactive responsibility. Secondly, a threat analytics module will be developed, which collects and supplies threats and vulnerabilities, responds to the intelligence received and initiates autonomous response and self-recovery procedures. Finally, a module called gamma virtual cyber, based on the cloud, will be developed

offers an immersive virtual environment for collaborative CERT/CSIRT training based on real-world environmental platforms (digital twins).

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The IRIS platform will be validated in three pilot tests at local, national and cross-border level in three cities: Helsinki (with a Smart Grid and Smart Vehicles platform), Tallinn (with its autonomous transportation systems platform), and Barcelona (with its urban platform of superblocks and smart services). esCERT is responsible for defining and coordinating the various environments of these tests and their technical requirements (use cases).

The IRIS project is part of the Horizon 2020 programme and will be developed over three years (September 2021 to August 2024). The consortium is led by the Institute of Innovation in Systems and Computer Engineering (INOV, Portugal) and is formed of 18 entities from Belgium, Rumania,

Luxemburg, France, the Netherlands, Cyprus, Italy, Greece, Estonia, Finland and Spain. The total budget is 5,678,075 euros.

Related Projects



Cardiovascular Scale

Funee



An application to



An APP to assist with

cardiovascular, stroke
and other devices for
fast, remote
cardiovascular
monitoring

an application to
assist the diagnosis of
injuries to the anterior
cruciate ligament of
the knee

an application to assist with
the differential
diagnosis of patients
with Parkinson's
disease and essential
tremor

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