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The **main ambition** of the RESISTO consortium is to develop the necessary concepts and a solid technological baseline to create a comprehensive solution that allows faster detection of new cyber/physical threats, better informed decision making and achievement of a joint understanding of cascading effects within the CI an across interconnected CIs providing enhanced resilience of Communication Infrastructure and CIs that rely on it. RESISTO will concretely support progress beyond the State of The Art in Communication CI protection and the EU strategy on Cybersecurity.

EXPECTED RESULTS:

- State of the art analysis of physical/cyber detection technologies and risk scenarios of Communication CIs
- Innovative tools, concepts, and technologies for combatting combined physical/cyber threats to Communication CIs (RESISTO framework).
- Security risk management plans integrating systemic and both physical and cyber aspects
- Extended validation of the RESISTO framework against physical/cyber threats across three verticals: current, future (towards 5G) and interconnected Communication infrastructures
- Convergence of safety and security standards, establishment and dissemination throughout the relevant user communities of specific models for information sharing on incidents, threats and vulnerabilities. Support to ECSO.

RESISTO PARTNERS



(RM3 third party) is responsible of Dissemination, Communication and awareness raising activities

COORDINATOR

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RESISTO

RESilience enhancement and risk control platform
for communication infra**ST**ructure **O**perators

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WHAT IS RESISTO PROJECT?

RESISTO is an **innovative solution for Communication Infrastructure** providing holistic (cyber/physical) situation awareness and enhanced resilience. It aims to improve risk control and resilience of modern Communication CIs, against a wide variety of cyber-physical threats, being those malicious attacks, natural disasters or even unexpected faults.

RESISTO will deliver a **holistic platform** that, implementing innovative security models, methodologies and technologies and, by interacting with pre-existent security components of a Communication Infrastructure, will increase the overall level of cyber-physical security providing a quantifiable benefit for the End Users in terms of resilience improvement and enhanced protection.

WHAT ARE THE OBJECTIVES OF THE RESISTO PROJECT?

RESISTO will:

- 1 Help managers of Communication CIs to guarantee improved business and asset continuity, delivering an innovative platform for optimized decision support in the face of physical, cyber and combined cyber-physical.
- 2 Develop an Integrated Risk and Resilience analysis and management tool, that takes account of cyber and/or physical threats and disruptions jointly at the level of telecommunication service functions and performance functions.
- 3 Provide, experiment and assess a suite of innovative cyber/physical security solutions for prevention, protection, detection and reaction that can deliver unprecedented cost-effective performances in a holistic technology framework.
- 4 Support a progressive adoption path for the RESISTO platform and services through extensive validation in relevant use cases for Communication Infrastructure protection (TRL 7) directly involving relevant Communication CI operators, arising awareness and promoting a joint approach to resilience.
- 5 Contribute to the European Programme for Critical Infrastructure Protection and to the objectives of the Cybersecurity Strategy of the European Union.

WHY RESISTO PROJECT?

Through RESISTO, **Communications Operators will be able to implement a set of mitigation actions and countermeasures** that significantly reduce the impact of negative events in terms of performance losses, social consequences, and cascading effects in particular by bouncing efficiently back to original and forward to operational states of operation.

The RESISTO project will foster the following key innovation areas:

- **Enlarged Threat Landscape considered** (Cyber/Phy/ Cyber+Phy)
- **Holistic approach to System Modelling**
- **Integrated Risk and Resilience management**
- **Convergence of PSIM and Cyber Protection technology**
- **Perspective: new challenges posed by 5G evolution** (IoT/loE, LPWAN)
- **New Technology for detection/protection/response** (blockchain, drones, machine learning algorithms, software defined security)
- **Cyber Intelligence**