



A holistic approach to resilience enhancement for C.I. operators

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Agenda

1

Introduction to
RESISTO

A brief walk through the
proposed architecture
for a Resilience
Enhancement platform

2

Critical
Infrastructure

Specific challenges to
resilience

3

Key Innovation Areas

A holistic approach to
resilience enhancement

4

Architecture
Overview

High Level Overview
of RESISTO's
architecture



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What is RESISTO?

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



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Horizon 2020

Project

Three – Year Research
Project

Funded by the European
Commision

Consortium of 19
partners:

- Large Enterprises
- Telecommunications
C.I. Operators
- Universities
- Research &
Technology
Organizations

Goal:

Design, build, test and
implement a risk and control
platform based on future-
proof technologies to drive
the resilience of C.I.
operators against complex
cyber & physical threats



Critical Infrastructure

Critical Infrastructure is a term used by governing bodies to describe assets that are essential for the functioning of a society and economy



Telecommunication Operators can be assets regarded as C.I. operators because they provide services necessary for coordination and basic inter-human communications

Large & Complex Technical Infrastructures

Cyber-Physical Threats

Provide service for current-gen technologies (4G) and at least N-2 gen (2.5G)

Large “tech debt”

Specific Vulnerabilities and Threats (SS7)

Heavily reliant on human decisions

APT reliant on social engineering (SIM Hijacking)



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Key innovation areas

1



Enlarged threat landscape considered

RESISTO will address cyber-security threats, physical security threats and complex, cyber-physical threats

2



Holistic approach to system modelling

3



Integrated Risk and Resilience Management

Leveraging these key innovation areas in resilience management and proven 'traditional' risk management methods

4



Technologically rich

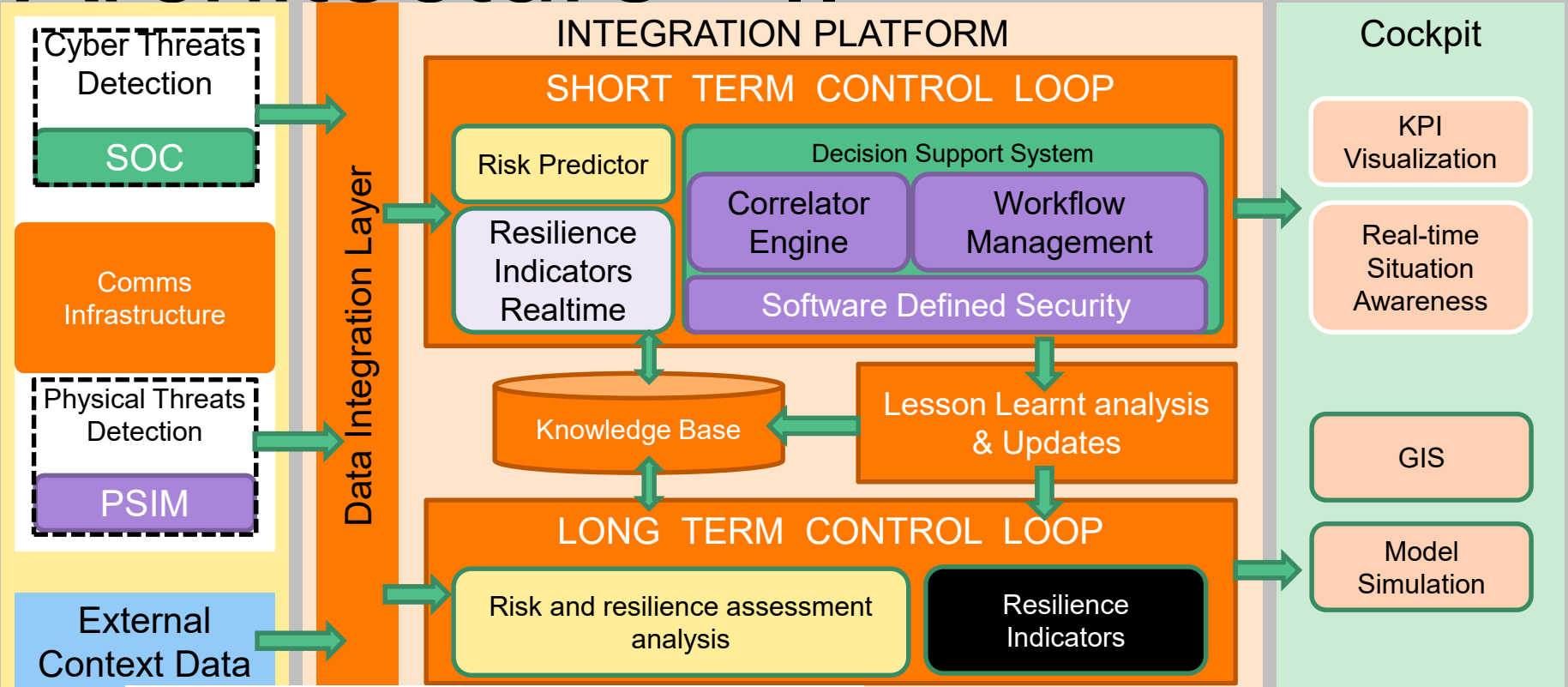
Using technologies such as block chain, M.L., Software Defined Security and advanced concepts like Threat Intelligence in the perspective of the 5G evolution (IoT/IoE/LPWAN)



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Architecture - II



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Thanks 😊

