



Horizon 2020 Secure Societies European Info Day and
Brokerage Event

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CoESSI

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Description of CoESSI



- **CoESSI:**
 - *SME, 7 years of existence, 800 k€ revenue in 2016*
 - *Consulting firm specialized in cyber-security*
 - *Awarded “Jeune Entreprise Innovante” in June 2014 (French national innovators' register)*
 - *Top level clients (AREVA, ERDF, TOTAL, RATP, Société Générale...)*
 - *Security auditing (penetration testing, architecture auditing), risk assessment, security management, R&D on demand.*
 - *We are looking at traditional information systems (IS), Industrial Control Systems (SCADA), Smart Grids and IoT at different levels*

- **Research activities:**
 - *Joint laboratory project with CEA-LIST supported by ANR, French national research agency:*
 - *« MOSARIS », security risk analysis framework for large-scale industrial systems (e.g., Smart Grids)*
 - *Developing tools and methods for security auditing, penetration testing and intrusion detection*
 - *Member of ISA (IEC 62443)*



Description of CoESSI (cont.)



- ***Skills we bring:***
 - Risk assessment and risk management in a cyber-security context
 - Security-by-design and privacy-by-design specification and implementation
 - Technical and methodological expertise on cyber-security (IoT, Smart-*, SCADA)
 - Technical cyber-security evaluation of developed solutions
 - Standard and norm development
 - Compliance testing and evaluation regarding existing/developed standards
 - Developing tools and methods for security auditing, penetration testing and intrusion detection
 - Security modeling (Attack trees, threat modeling)

- ***Calls we are interested in:***
 - CIP-01-2017
 - DS-07-2017
 - DS-08-2017
 - *Any other call where our expertise can be relevant!*



- **Idea:**
 - Automated Cyber Attack Detection with AI and Automated Response in Carrier/Cloud Network
- **Objective:**
 - Combine DPI + AI for protocol analysis and attack detection and response
 - SDN for policy enforcement and fine-grained response
 - Increase situation awareness and attack detection
 - Automated and efficient detection/response
- **Expected results**
 - *A full and operational attack detection solution based on AI + DPI and threat modeling*
 - *Contexts of large networks and systems*
 - *Use of novel networking technologies*



Consortium



No	Partner Name	Type	Country	Role in the Project
01	CoESSI	SME	FRA	Attack trees, security policy,
02	RedMintNetworks	SME	FRA	DPI, Data Analysis
03	UPEM	ACA	FRA	SDN
04	CU Leuven	ACA	BEL	TBD
05	CISTER	ACA	POR	TBD
06	Operator / Cloud Provider	OPE	?	Specification, use case
07	X	X	?	Big-Data software and resources
08	Open for proposals			





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