

DEFENDER

<u>Defending the European Energy Infrastructures</u> Critical Infrastructure Protection Topic 1

Prevention, detection, response and mitigation of the combination of physical and cyber threats to the critical infrastructure of Europe

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 740898





Project Overview



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DEFENDER identity card

• Call Identifier: H2020 CIP-2016-2017-1

• Starting Date: 1 May 2017

• Action Type: Innovation Action

• Duration: 36 months (Closing Date: 30/4/2020)

• **EU Contribution**: 6.790.837,50 €

• Partners: 18 (from 9 countries)

• Country coverage: Italy, Greece, France, Romania, Germany, Slovenia, Portugal, UK, Israel

• Website: http://defender-project.eu/

ICT Service & Technology providers

• SIEMENS (ICT)

• THALES (Security)

• POWER: January (SME - Solution Provider)

• (Data Privacy/Protection Enforcement))

R&D/Academy









Stakeholders

- ASM (Electricity Network Operator, DSO)
- consideration (Electricity Supplier, Bulk generation)
- **WBFP** (Electricity Supplier, Wind farm)
- ■ ELES (Electricity Network Operator, TSO)
- 🧶 (Law Enforcement Agency)

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DEFENDER Mission

DEFENDER aims at safeguarding existing and future European CEI operation over cyber-physical-social threats,

developing a **new approach** based on

novel protective concept for lifecycle assessment, resilience and self-healing offering

Security-by-design, and advanced intruder inspection and incident mitigation systems

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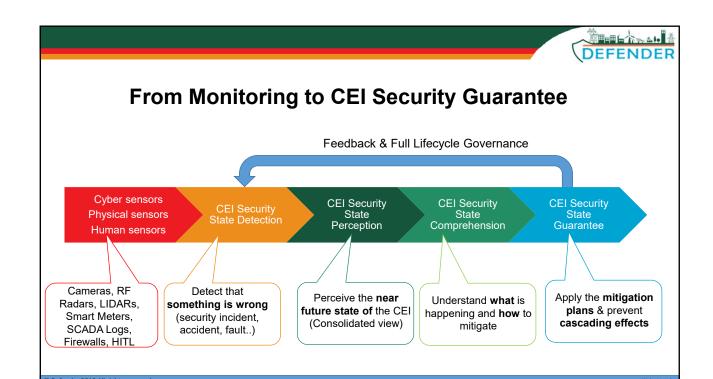
Technical Approach

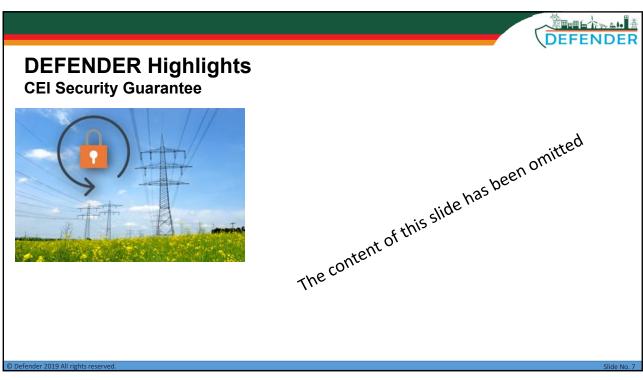


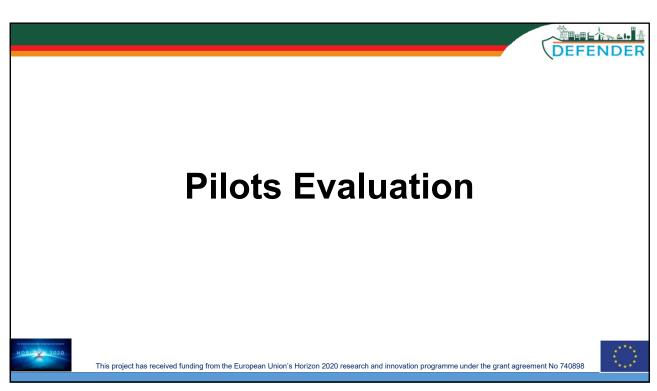
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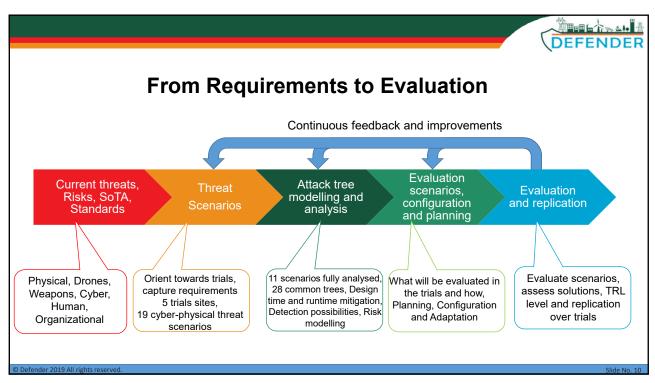














Achieved results and Ongoing activities



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EU Policy Goals



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Contribution to EU policy goals

- DEFENDER brings on the table certain new analyses and approaches:
 - a) Analysis of CEI new complex threats
 - b) Analysis of interdependency between CEI and other CI sectors
 - c) Analysis of selected threat scenarios (including attack tree method evaluation)
 - d) Comprehensive approach and solutions for CEI protection in the field of Continuity Management
 - e) Methodology for risk assessment (analyses of processes and procedures that address certain security gaps in the field of physical and cyber security including human in the loop approach)
 - f) Establishment of DEFENDER Critical Energy Infrastructure Security Stakeholders Group (**CEIS-SG**) (exchanging best practices, new knowledge and developments)
 - g) Possible areas for Standardization efforts: information security improvements (family of ISO 27000), technical security systems (cameras, sensors, security centres) improvements, security integrated procedure improvements of standards and threat assessments, evaluations and vulnerability management (ENTSO-E, CENELEC, ESO, CEN, ECSO), new EU regulation on drones

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Defending the European
Critical Energy Infrastructure

Thank you for your attention

For further information do not hesitate to contact me at the following email: gabriele.giunta@eng.it



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