

PRESS RELEASE

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Thrid ZONeSEC Pilot demonstration in Athens, Greece

ZONeSEC held its third and Final Pilot demonstration after 4 years of intensive work in Athens (Greece) during the 25th and 26th of October 2018. The event took place at both Atikes Diadromes (<https://en.aodos.gr/>) premises and Megara site close to DESFA (<http://desfa.gr/en/>), focused on the protection of the road network (Motorway) of part of the Attica Prefecture against physical and cyber intrusions and attacks. The scenario demonstrated to an extense audience (external guest participants and the EC reviewers) how the ZONeSEC system framework provides means to increase the security of the Critical Infrastructure monitoring and detecting any malicious intrusion.

During the Pilot, the project participants demonstrated to stakeholders the latest developments in the surveillance of critical infrastructures, more specifically in the deployment of low cost plug&play sensors, the fusion of multiple sources of data, the integration of legacy sensors, the simulation of incidents, near real time distributed communication supporting the system's data exchange, and the Common Operational Picture (including its mobile version). A MIMO-Radar, a distributed acoustic sensing system, a multispectral sensing system, acceleration sensors, a UAV system and COTS based intrusion detection systems were fully integrated and real-time techniques of detection were deployed including IP cameras live footage.

About ZONeSEC

ZONeSEC aims to address the needs of Widezones surveillance by defining a new European-wide framework, which will extend beyond a sole technical proposition. Driven by the need to yield a holistic and uniform approach, ZONeSEC redefines the issue of security of Widezones by taking into consideration issues pertaining to costs, complexity, vulnerability, societal acceptance and ethics.

ZONeSEC will perform all needed research, development, integration and awareness raising work to yield a holistic solution:

- By adopting a **Total Security Approach**, merging and balancing all relevant aspects in the design of an innovative Widezone surveillance system.
- To put in place a **scalable framework and congruent prototype** that will **guarantee the seamless and cost-efficient surveillance of Widezones – irrespective of their type** – enhancing to that effect the security of these broad areas beyond the mere surveillance of critical infrastructures.
- To introduce a ground-breaking approach in **simulating the behavior of important sub-systems, threats and human entities**. The resulting environment will be used for the early design and testing of the ZONeSEC components cost-efficiency while it could also be exploited for the realistic training of surveillance operators.

- To support with its valuable functions a total **Early Detection and Situational Awareness** mechanism that will assist **authorities and operators in the prevention of illicit activities** even in the most complex, remote or demanding localized spaces.
- To dynamically assess how an activity might evolve into a threat for the well-being of the protected Widezone, **fusing different information data which** establishes an **active and dynamic surveillance framework** instead of the current passive and static one.
- To **improve the sensor base** and sensor intelligence for high quality input for the systems information fusion and processing framework, to detect various kinds of illicit pattern of activity, **reducing the rate of false alarms**.
- To provide a new **EU trendsetting benchmark** for Widezones surveillance systems, by delivering a **highly usable and on-line toolkit that will provide references, consultation and guidance services for the protection of infrastructure spreading across Widezones (EU-WSRT)**.
- To set a cornerstone for the **standardization of equipment, network architecture, processes and methodologies** for Widezones surveillance purposes on an EU level addressing the cross-cultural issues emerging from the diversity of normative frameworks, contexts of implementation etc. ZONESEC aims at providing pre-normative standards through modern dual path standardization process: Standardization Organizations committees and workshop agreement/industrial specifications group.
- To provide **recommendations on policies** development aiming at harmonizing the European, National and Regional regulatory packages applicable to the protection of critical infrastructures in Widezones.
- To **safeguard the societal acceptance** of the proposed framework by adhering to the recommendations and expectations of the Societal Impact Expert Working Group.
- To set-up **visible demonstrations of an innovative and a Unique Reference Surveillance System** for the protection of Widezones in realistic situations.
- **To support civil protection authorities** in the formation and validation of proper safety procedures for the **mitigation of the effects of illicit activities** towards a Widezone (especially parts of the protected infrastructure that are close to metropolitan or urban, semi-urban areas).

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