



At a glance

S4AllCities is a research project funded by the European Union's Horizon 2020 Research and Innovation Programme, with an aim to revolutionize the way smart cities become more protected, prepared and resilient to both physical and cyber attacks on City soft targets, smart spaces and critical infrastructure networks. This is done by greatly augmenting City Spaces Situation Awareness with intelligence, context and evaluated real-time cyber and physical security threat levels.

The project has a total budget of 9.7 Million Euros and duration of 24 months (1 September 2020 – 31 August 2022). It brings together a consortium of 28 partners from 9 EU countries, including leading European research/academic institutions, SMEs from the software and security domains, and end-users represented by Smart Cities, Law Enforcement Agencies & Transport Operators.

The S4AllCities approach is centered about three modular yet interconnected digital twins, designed to ingest large amounts of data from edge-computing sensors deployed within the Smart Cities, appropriately fuse the information received to establish a recommended course of action, and present the relevant operators with timely and concise actionable information. This is achieved through a large array of AI tools operating on the massive amounts of data received from the sensor network. The sensor network itself comprises multiple innovative sensors advanced through the project's activities and complemented by the smart city legacy sensors network. The system is completed by both physical and cyber-security shielding through appropriate safety and anonymization methods.

Goals & Objectives

The goal of S4AllCities technology is to revolutionize the way smart cities become more protected, prepared and resilient to both physical and cyber-attacks on City soft targets, smart spaces and critical infrastructure networks. The S4AllCities technologies will enable City executives and security managers work together through a Common Operational Picture. In the case of a City under a threat situation, our technology enables actors to audit trail the way the threat situations are managed, costing them, time-tagging each of the steps taken for eliminating threats and constantly advancing their strategies for becoming more security tight and not vulnerable to attacks.

The main objectives of the project are:

- To complement legacy monitoring systems with the adaptation of state of the art and beyond low cost surveillance technologies and solutions that enhance Smart City preparedness and defense capacity in both cyber and physical space.
- To design and develop an open platform for sharing and managing information, while providing intelligence with unprecedented situational awareness and decision support, while enhancing European city resilience, without compromising citizens' fundamental rights and privacy.
- To design and develop intelligent communications architecture that ensures the interconnection and integration of city smart systems while supporting security practitioners.
- Significantly impact collaboration across smart cities' stakeholders while engaging citizens towards more secure and safe cities.

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