

Horizon Europe PROFILE FORM

Organization Name / Department	Aster Tec srl	Organization Short Name	AST
Organization Type	<input type="checkbox"/> University <input type="checkbox"/> Public Research Centre <input type="checkbox"/> Large Scale Enterprise <input checked="" type="checkbox"/> Small and Medium Scale Enterprise	<input type="checkbox"/> Public Body <input type="checkbox"/> International NGO <input type="checkbox"/> National NGO	
Research Fields	<p>machine learning, neural networks and artificial intelligence, real time signal processing, geodata fusion & correlation.</p>	<p><u>Sub-Fields / Keywords:</u></p>	
Short Description of the Organization / Department	<p>ASTER TEC is an italian private and independent SME active in the field of Aerospace, Defense, Security, Transport, Infrastructure, Energy and Environment Technologies.</p> <p>ASTER TEC mission is to support General Contractors, Prime Contractors, Public Bodies and Government Institutions at an international level in the development of large technological projects through the development of innovative technologies.</p> <p>ASTER TEC has developed proprietary innovative technological solutions in the Smart Technologies sector, with particular reference to IoT Platforms, Decision Support Systems, Smart Sensors and Geographic Information Systems (GIS) specialized in data & information fusion applications for Smart Cities & Communities.</p>		
Previous Related Projects / Research Experience	<ul style="list-style-type: none"> • FP7 EUCISE 2020: within the framework of the project, Aster supported the Italian Space Agency and the Italian Navy in the specification and in the implementation of an EU CISE node that ensures interoperability between Member States legacy systems for sharing maritime information • Implementation of a smart webGIS solution for management and real time monitoring of Campania Regional Water Network: development of a vertical application on the proprietary Terrapack® webGIS technology with inherent geospatial cybersecurity capabilities for the management and the real time monitoring of the Regional Water Network. • Development of an innovative Decision Support suite for the monitoring of Naples Water Network: development of a simulator environment based on the modelling of Naples Water Network for detection, monitoring and movement prediction of water contaminants and for the adoption of countermeasures. • Development of an Environmental Monitoring Platform for Campania municipalities: development of a vertical application on the proprietary Terrapack® webGIS technology for the production of geospatial intelligence maps and satellite change detection products 		

Short Description of the Project idea (if foreseeable)	Development of a vertical application based on the proprietary webGIS Terrapack® engine with inherent cybersecurity capabilities. Terrapack® is a completely proprietary software and it does not require third party or open source GIS and WMS engines. Moreover, despite being a web based GIS platform with all related benefits, Terrapack® geo-entities are stored and processed at server level and the whole rendering process is also performed on the server side. Thanks to this specific feature, sensitive data can be protected at server level inside a proprietary secure infrastructure, whilst web clients can receive cartographies, rasters and vectors maps, information layers through secure and encrypted connections.
Related Call/Topic	HORIZON-CL5-2022-D3-01-11 HORIZON-CL5-2022-D3-01-10
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