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Project Facts

Work programme
Horizon 2020

Duration
18 months

Start
01/11/2021

EU Contribution
€5 M

Coordinator
Hellenic Police

Consortium



WOITSCH CONSULTING

HENSOLDT



NESTOR

aN Enhanced pre-frontier intelligence picture
to Safeguard The European borders

About

NESTOR is an EU-funded project of 21 partners from 13 countries aiming to address a common challenge among EU Member States: the protection and safeguarding of the European marine and land borders. To meet this challenge, NESTOR develops a next generation holistic border surveillance system providing pre-frontier situational awareness reaching maritime and land borders. The solution follows the concept of the European Integrated Border Management.



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Approach

NESTOR integrates state-of-the-art surveillance technologies into a holistic deployable system capable of detecting, assessing and efficiently responding to illegal activities.

The NESTOR system will be enriched with accurate detection capabilities to optimally monitor border territory and will offer enhanced situational awareness and increased decision-making capacity to Law Enforcement Agencies by employing advanced data fusion and Artificial Intelligent techniques to multimodal feeds from numerous off-the-shelf devices.

Advanced visual analytics will be developed in a comprehensive framework presenting the acquired sensory readings and the detection outcomes. Mixed reality technologies will offer an effective coverage surveillance system to improve the overall operational image of the surveillance areas and qualitatively expand detection capabilities. The complete NESTOR concept will be assessed in three international trials in both land and maritime operations.

Expected Impact

- Enhance the situational awareness and pre-frontier intelligence at the EU external borders by developing, integrating, testing and validating surveillance technologies at real trial scenarios.
- Create a reliable, enhanced maritime surveillance and border security interoperability framework to be used in a Common Information Sharing Environment for exchanging data and services among border authorities.
- Allow for considerable cost-savings, performance improvement and quick adoption of the solution by building upon existing state-of-the-art technologies.
- Improve the surveillance areas' overall operational image and qualitatively expand detection capabilities for the EU maritime safety and security agencies by using mixed reality technologies and offering a wide coverage surveillance system.
- Improve situational awareness, decision making and reaction for both land and maritime border control by utilizing bespoke visual analytics tools and multimodal data fusion.
- Enhance the capabilities to exchange advanced pre-frontier intelligence information at cross-border and cross-sectoral level by implementing the CISE adaptors and EUROSUR compliant interfaces.
- Improve the global maritime security under the implementation of the EU Global Strategy by complying with the EU Maritime Security Strategy Action Plan.

Safeguarding the European borders through a fully functional, next generation border surveillance system

