

At a Glance

Acronym: EFFECTOR

Title: An End to end Interoperability Framework For MaritimeE Situational Awareness at StrategiC and TacTical OpeRations

Call identifier:

H2020-SU-SEC-2019

Topic: SU-BES03-2018

-2019-2020

Demonstration of applied solutions to enhance border and external security

Total Budget: € 4,999,529.50

Project duration: 24 months

Start Date: 1st October 2020

Project Coordinator:

SECRETERIAT GENERAL DE LA MER, France (SGMER)

The **EFFECTOR project** offers a solution for maritime surveillance and border security which includes:

- an **interoperability framework**;
- associated **data fusion** and **analytics services**.

In brief, EFFECTOR improves the **decision support** process by enabling faster detection of new maritime events. At the same time EFFECTOR assists the **operating authorities** and **on-site intervention forces** in communicating and sharing information within a common environment, the **Common Information Sharing Environment (CISE)**.

Contact us

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An End to end Interoperability Framework For MaritimeE Situational Awareness at StrategiC and TacTical OpeRations

Consortium



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 883374. This material reflects only the author's view and the Research Executive Agency (REA) and European Commission cannot be held responsible for any use that may be made of the information it contains.

UNLOCKING
THE FULL
CAPABILITIES
OF MARITIME
SURVEILLANCE



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EFFECTOR H2020 Project

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The challenge

Maritime Situation Awareness (MSA) is a common need to most of the maritime authorities interested in different domains such as security, safety, border control, or marine environment protection. Keeping seas and oceans safe, secure and clean is a priority. Ensuring the adequate maritime security is necessary to protect the EU's strategic maritime interests

The EFFECTOR Solution

The EFFECTOR system boosts the maritime surveillance and improves decision support linked to Common Information Sharing Environment (CISE).

Trial Sites

The EFFECTOR system is tested, validated and demonstrated in real operational scenarios together with maritime authorities, End Users and practitioners in France, Portugal and Greece.



EFFECTOR Demonstrator Core Principles



The EFFECTOR end-to-end interoperability demonstrator is built around 4 principles:

(a) the information sharing and integration of technologies (tactical assets and surveillance systems) so as to unlock the full potential of data and intelligence that is currently underutilized in the maritime domain

(b) the validation and evaluation of the applied solutions in dedicated operational scenarios, small and large scale demonstrations and trials

(c) the active engagement of End Users and practitioners in testing and evaluation in real operational environment and organizational structures at local regional, national and transnational level

(d) the validation of interoperability standards and regulations (including GDPR), and the extension and/or adaptation of emerging standards from other domains.

The interoperability aspects that govern the EFFECTOR solution is aiming to address the following technical interoperability aspects: Data Integration, Data Harmonization, Data Linking, Knowledge Extraction, Information Sharing, Semantic Analysis and Security & Privacy.

Objectives

- 1** Facilitate the interoperability in the local, regional, national and transnational information sharing of advanced maritime situational picture
Implement a versatile data lake platform and ensure interoperability with CISE and EUROSUR.
- 2** Increase the use of underutilised surveillance data sources
Interconnect novel surveillance data sources and legacy systems.
- 3** Improve knowledge extraction and decision support
Introduce and apply layered data fusion techniques, optimized data processing and analytics tools, and semantic web technologies.
- 4** Provide enhanced interoperability at tactical and strategic level
Include mission management and reporting
- 5** Strengthen the collaboration and cooperation of EU maritime safety and security authorities
Exploit results and findings of previous relevant EU projects and initiatives.
- 6** Deliver realistic demonstration trials for a multiplicity of use cases
Reduce the death toll at sea via Search and Rescue, boost maritime surveillance for illicit activity detection, assist in early warning and monitoring of environmental maritime conditions, irregular migration, illegal fishing etc.
- 7** Promote and contribute to interoperability standards
Contribute in CISE standardization efforts, and support public out-reach of the project results.
- 8** Ensure privacy and personal data protection
Comply with the existing legal and regulatory frameworks.
- 9**