

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

EFFECTOR Overall Presentation



Table of Content



- Introduction to the project
- EFFECTOR at a Glance
- Motivation
- The EFFECTOR solution
- EFFFECTOR Demonstrator core principles
- EFFECTOR Trials Sites
- Project Objectives
- Expected Impact
- Consortium



Introduction to the Project





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



associated data fusion and analytics services.



Introduction to the Project







In brief...

- SUPPORT 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 <u>Common Information</u>

 Sharing Environment
 (CISE)



EFFECTOR at a Glance...







Acronym: EFFECTOR **Title:** An End to end Interoperability Framework For MaritimE 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

Project duration: 18 months

Start Date: 1st October 2020

Project coordinator: SECRETERIAT GENERAL DE LA MER

(SGMER)

Total Budget: € 4,999,529.50

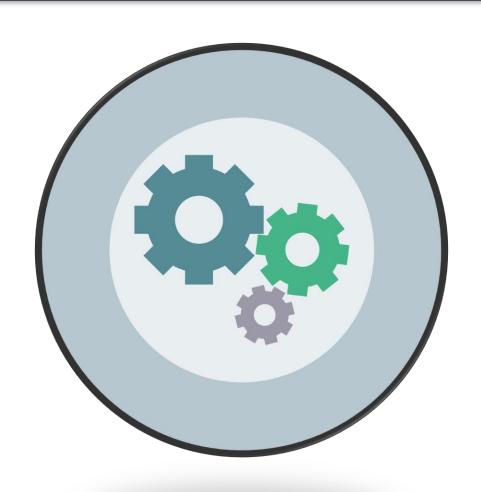
Project Website: www.effector-project.eu



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



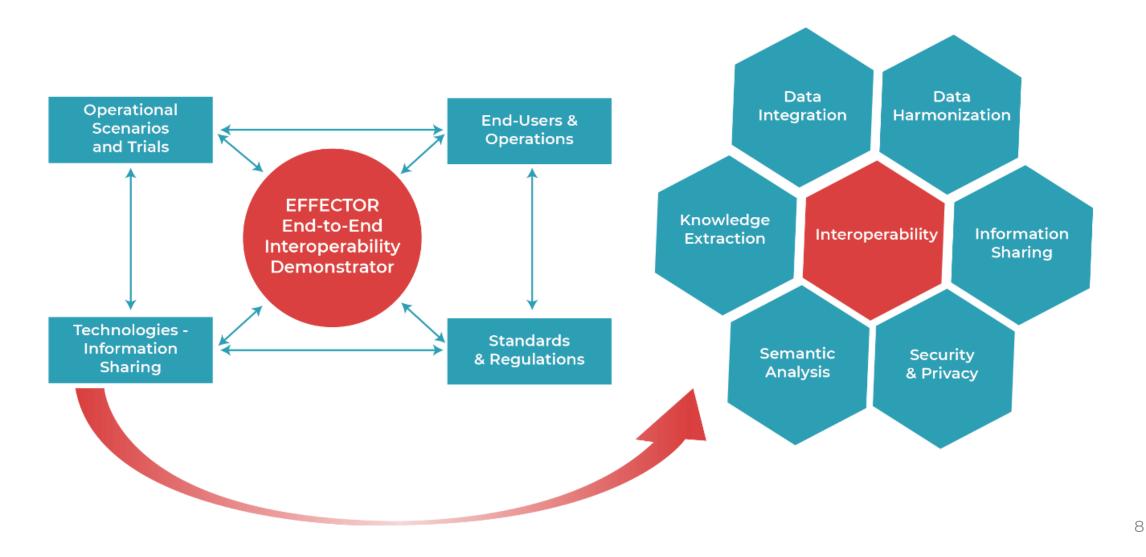


The EFFECTOR system boosts the maritime surveillance and improves decision support linked to Common Information Sharing Environment (CISE).



EFFECTOR Demonstrator Core Principles







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.



EFFECTOR Trials 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 Objectives	Aiming to:
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.
Increase the use of underutilised surveillance data sources	Interconnect novel surveillance data sources and legacy systems.
Improve knowledge extraction and decision support	Introduce and apply layered data fusion techniques, optimized data processing and analytics tools, and semantic web technologies.
Provide enhanced interoperability at tactical and strategic level	Include mission management and reporting
Strengthen the collaboration and cooperation of EU maritime safety and security authorities	Exploit results and findings of previous relevant EU projects and initiatives.
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.
Promote and contribute to interoperability standards	Contribute in CISE standardization efforts, and support public outreach of the project results.
Ensure privacy and personal data protection	Comply with the existing legal and regulatory frameworks.



Expected Impact



- ✓ Create a solid, enhanced Interoperability Framework for Maritime Surveillance and Border Security;
- ✓ Improve the overall operational picture of the surveillance areas;
- ✓ Provide significant cost-savings and efficient systems for the prevention of cross border crime and for border surveillance for civilian purposes;
- ✓ Contribute to European standardization for interoperable systems;
- ✓Increase the maritime situational awareness and reaction capability;
- ✓ Align with current strategic EU Priorities to Maritime sector;
- ✓ Strengthen citizen safety by reducing human trafficking and saving lives at sea, by offering a precise operational picture that will help authorities react quickly & efficiently.





The EFFECTOR consortium is consisted of 16 prestigious project partners from 6 European countries which namely are France, Greece, Italy, Portugal, Bulgaria and Montenegro.





































Thank you for your attention!

Any questions?