



According to the Action plan of the EU Maritime Security Strategy, action 3.1.3, the use of CISE intends to exchange maritime surveillance information to boost resilience and protect the critical maritime infrastructure (CMI). Maritime Domain Awareness (MDA) is understanding of anything that could impact security, safety, economy, marine environment. There are several cyber and hybrid threats which can be: unintentional harms or deliberate actions.

Use case is applicability according to the types of CMI as: Shipping, Energy, Communications, Fishing, Marine biodiversity. The use case scenario Protection of critical infrastructure is principally intended to test CISE Operational service "Area Of Interest". It will be used for sharing the Area of interest and receiving the requested specific information from contributors.



The scenario involves

- Slovenian Maritime Administration (SMA)
- Hellenic Republic Ministry of National Defence, Greece (HMOD),
- Agenzia Spaziale Italiana, Italy (ASI)
- European Union Satellite Centre (SatCen)
- European Maritime Safety Agency (EMSA)



1.6.2024 – 30.6.2024
1.9.2024 – 30.9.2024



TRIAL SCENARIO DESCRIPTION

PROTECTION OF CRITICAL MARITIME INFRASTRUCTURE

1 SMA is interested to perform the necessary checks using CISE exchange mechanism about the activities detected in the Area Of Interest (AOI) which may raise suspicion such as: presence of suspicious Vessel Of Interest (VOI), vessel with an abnormal behaviors, unreliable information from vessel etc.

2 SMA and contributors create the required CISE services. AOI Supporters subscribe to SMA AOI Subscribe Provider Service. SMA Publishes AOI List to All Supporters.

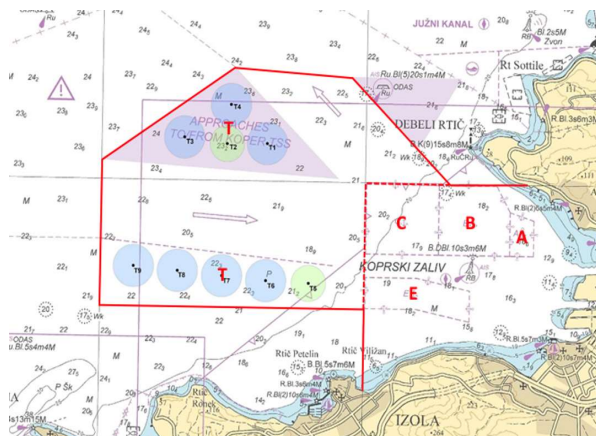
3 EMSA receives AOI area details and provides the requested satellite images. SMA operators meticulously examine the visual data for any irregularities or suspicious activities. Additionally, the images are cross-referenced with historical data to detect patterns or anomalies in vessel behavior over time.

4 HMOD receives AOI area and responds with the requested information about anomalies and vessels. SMA's operators carefully review each anomaly flagged by HMOD, categorizing them based on severity and potential risk to maritime security. Suspicious vessels are flagged for closer scrutiny. This information forms the basis for targeted surveillance and enforcement actions by Slovenian maritime authorities.

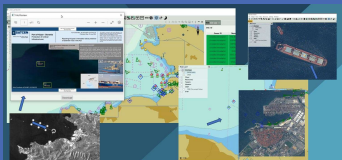
5 In the same time also SATCEN receives AOI area and responds with a comprehensive analysis of their satellite imagery of the area. Data which offers a holistic perspective on the maritime environment within the AOI are reviewed by SMA.

6 ASI also receives AOI area from SMA and responds with the requested historical images. SMA's analysts leverage ASI's satellite images to corroborate findings, verify vessel movements and identify any discrepancies or gaps in the data.

7 By systematically analyzing the data received from contributors SMA can strengthen its maritime security posture.



BENEFITS USING CISE



Combination of different data from various sources, such as satellite imagery, AIS, VTS etc., interconnecting national and sectorial surveillance systems, contributes to a more comprehensive understanding of the maritime environment within the AOI, identifying potential risks and other relevant information for safety and security.

It enables MOC to proactively identify and mitigate security threats, as well undertaking necessary actions in a timely and efficient manner. Data fusion allows for better coordination, allocation, and utilization of resources by providing detailed insights into maritime operations.

Through strategic collaboration and operational integration, MOC remains at the forefront of safeguarding critical maritime infrastructures and ensuring the safety and security of the AOI.



Scan the QR Code for More Information on CISE ALERT project!

<https://www.cise-alert.eu/>



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