OKEANOS: Integrated solution for oil spills at sea

ORBITALEOS
Earth Observation Solutions

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

14 LIFE BELOW WATER
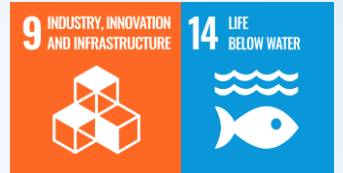
- User: Oil & Gas companies, Environmental/Maritime Authorities, Maritime Ports, NGOs
- Challenge/Needs: oil spill detection, characterization & trajectory forecasting, Identification of source. ESG reporting
- Initiative: commercial product developed in partnership with CMCC srl, as a one-stop-shop for oil spill monitoring and forecasting at sea. OKEANOS constitutes a user-friendly, convenient, accurate and agile tool to have advanced situational awareness and optimise decision making
- Results: AI-based platform that provides early warnings of detected oil spills, identification of source and trajectory forecasting. The analytics provide unique features like thickness mapping and quantification of oil released at sea
- Service Provider: Orbital EOS

Target 9.4: By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.

Target 14.1: By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land- based activities, including marine debris and nutrient pollution.

Fig. Digital interface of OKEANOS, showing oil spill in Baniyas terminal, Syria

EARSC
European Association of Remote Sensing Companies

https://www.rempec.org/en/news-media/rempec-news/incident-involving-a-fuel-leakage-into-the-mediterranean-sea-from-the-baniyas-thermal-station-syria-1

https://www.orbitaleos.com/