

June 2022



MONITORING COASTAL WATERS IN NEAR REAL TIME

>>> A few years later

In the past few years, this space-based solution has evolved to higher level. It is currently “fuelled” by CMEMS data, while the geo-information is provided by the Rheticus® Marine web geoportal. This service is also new pilot in the e-shape/EuroGEO portfolio.

Stelios Bollanos, Planetek Hellas EPE



BENEFICIARIES	Planetek Hellas EPE	Water Directorate of the Decentralised Administration of Epirus and Western Macedonia	Fishermen; Fish farms managers; Fish and seafood industry; Scientific community	Citizens and Society
	TIER 1: SERVICE PROVIDER	TIER 2 PRIMARY USER	TIER 3 SECONDARY USER	TIER 4 END USER BENEFICIARIES
SERVICES	Sentinel-3 CMEMS	A cloud-based geo-information service (SAIMON); Information on parameters such as: Chlorophyll, Sea Surface T° and Water Transparency; Monitoring changes in the fish population	Timely and accurate information on the water quality in the coastal areas; Improved decision making on fish production; Ensured continuity of the service due to coverage of wider monitoring areas, in all weather conditions	Improved monitoring of water quality in coastal areas; More sustainable fish and seafood farming practices.

Value chain definition following SeBS Methodology - <https://earsc.org/sebs>

The space-based solution

This Copernicus-based solution was produced by a commercial company for a Public Administration. Since 2018, additional Copernicus Services data type are now used, specifically Copernicus Marine Monitoring Service data.

The Usage Maturity Level

The User Maturity Level has consolidated at level 3 because the new space-funds were allocated to uptake the space-based solutions into territorial practices.

Thematic Area



BIODIVERSITY AND ENVIRONMENTAL PROTECTION

Region of Application



EPIRUS

Sentinel mission used



S3

Copernicus Service used



CMEMS

Usage Maturity Level



3

Overall benefits

ECONOMIC



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

INNOVATION



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

ENVIRONMENTAL



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

SCIENCE



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

REGULATORY



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

SOCIETAL



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Benefits classification following SeBS Methodology - <https://earsc.org/sebs>

Interesting facts...

Starting from the solution targeting marine environment, a specific cloud-based service was designed to provide Aquaculture companies with Copernicus-based data and analytics. This brand-new vertical solution is currently adopted by Associazione Mediterranea Acquaicoltori (AMA) to monitor mussel and oysters farming sites in Italy.

Outlook to the future

Planetek Italia has further developed the solution to fit better Sustainable Development Goals targets and reporting. and oysters. In addition to AMA, authors envisage that other associations will be involved to start adopting the solution.

Contacts

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