



SAFI

Support to Aquaculture and the Fishery Industry

Grant Agreement No. 607155

D8.1 - Use of Copernicus Data by SAFI

Executive Summary

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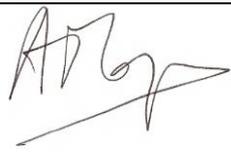
	<p style="text-align: center;">SAFI – Support to Aquaculture and Fishery Industry D8.1 - Use of Copernicus Data by SAFI</p>	<p>Version v1.0 Date : 31/03/2015 Grant Agreement No : 607155</p>
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REVISION RECORDS

Issue	Date	Updates	Authors
v1.0	21/09/2016	Creation	Philippe Bryère (ACRI-ST) Chloé Vincent (ACRI-ST) Antoine Mangin (ACRI-ST) Jesus Moralès (IFAPA) Inés Martínez Pita (IFAPA)

TABLE OF SIGNATURES

This document has been approved by:

Date	Name, Title, Beneficiary	Signature
21/10/2016	Antoine Mangin, SAFI Coordinator, ACRI-ST	

Period covered by the project: 01/10/2013 – 30/09/2016 (36 months)
Type of funding scheme: Collaborative Project - small or medium-scale focused research project
Name of the coordinator: Antoine Mangin, ACRI-ST
Mail: antoine.mangin@acri-st.fr
Tel: +33 4 92 96 75 08
Fax: +33 4 92 96 71 17

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PUBLISHABLE SUMMARY OF THE DOCUMENT

1.1 PROJECT SUMMARY

The objective of SAFI project (SAFI standing for “Support to Aquaculture and Fishery Industry”) is to exploit Earth Observation (EO) resources to support fishery and aquaculture industries in marine coastal regions.

The service, based on additive value brought by a network of SMEs, is adapted to each category of targeted users.

By making the best use of emerging EO products, the project aims at developing services to assist aquaculture deployment (optimization of cages location with respect to environmental and ecological context) and environmental monitoring during operations as well as supporting fishery by providing indicators of recruitments, abundances, and shell/fish locations (and its variability due to climate change). In this perspective, SAFI fosters the use of the latest generation of satellite sensors and in particular those on-board the future ESA Sentinel missions (Sentinel 2 and 3).

The capacity of exportation and acceptance of the developed services will be then evaluated on several pilot sites in Europe (Spain, Portugal, Ireland, France) and demonstrated in Morocco.

Finally, SAFI also allows the set-up of a network of SMEs at different levels of expertise (and EO awareness) required by the service in order to build a consistent and marketable offer.

The project finally leads to the development, deployment and evaluation of an integrated decision-support tool based on a web-GIS, broadcasting SAFI indicators to the various user concerned (industrials, public administrations in charge of fishery or aquaculture planning, EO service providers, great public) that will be fed by a service of EO high level data processing.

1.2 DELIVERABLE SUMMARY

The SAFI project has been initially built on the expectation that, during the course of the project, the on-going deployment of the COPERNICUS program by the EU commission would allow the start and sustainable operations of the SAFI services at the end of the SAFI project. While deliverable D13.1 describes under which form the SAFI services could be operated, federated and commercialised, the present document describes the status, at the end of the project, of the maturity of COPERNICUS services to serve the purpose and the need for inputs to SAFI services.

The main objective of this document is to derive and present the compatibility of the Copernicus offer with inputs required by SAFI indicators. More specifically, the two following points had to be analyzed:

1. Are the SAFI indicators derivable in a sustainable way, by using Copernicus data (and so this derivation could rely on the medium/long term procurement of data)?
2. How will be ensured the connection with Copernicus and other data sources to feed in the SAFI service and tools?

As The Copernicus Marine Environment Monitoring Service (CMEMS) is presently in deployment phase and will offer, in its nominal configuration, larger data catalogues and fluxes, we present also interesting perspectives for SAFI service in the short/medium term.

The document is split into three parts attempting to answer synthetically to the following questions:

1. Is COPERNICUS marine service suitable for SAFI today’s products?
2. Would COPERNICUS marine service be helpful to define and process new products for SAFI?
3. Would COPERNICUS marine service open new opportunities for SAFI services?