



SAFI

Support to Aquaculture and the Fishery Industry


Grant Agreement No. 607155

D4.2 – SAFI service definition (Final)

Executive Summary

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	<p align="center">SAFI – Support to Aquaculture and Fishery Industry D4.2 – SAFI service definition</p>	<p>Version v1.0 Date: 26/07/2016 Grant Agreement No: 607155</p>
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REVISION RECORDS

Issue	Date	Updates	Authors
v1.0	26/07/2016	Update of Document D4.1 based on evolution of SAFI User Requirements and SAFI tools development	Catherine Lecouffe and Antoine Rougier, COFREPECHE Chloé Vincent and Philippe Bryère, ACRI-ST Catherine Smith and Julie Maguire, DOMMRS Declan Dunne, UCC

TABLE OF SIGNATURES

This document has been approved by:


Date	Name, Title, Beneficiary	Signature
26/07/2016	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 SAFI 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, and aims to realise the following objectives by making the best use of emerging EO products:

- 1) Develop a service to assist aquaculture deployment (optimisation of farms location with regards to environmental and ecological context) and environmental monitoring during operations,
- 2) Develop a service to support fishery by providing indicators of recruitments, abundances, and shell/fish locations (and its variability due to climate change),
- 3) Set up a network of SMEs at different levels of expertise (and EO awareness) required by the service – and to build a consistent and marketable offer,
- 4) Evaluate the capacity of exportation and acceptance of this service,
- 5) Foster the use of Sentinel 2 and Sentinel 3 data (upcoming ESA satellites).

The project will finally lead to the development, deployment and evaluation of an integrated web-GIS (geographical information system), broadcasting SAFI indicators to the various user concerned (industrials, public administrations in charge of fishery/aquaculture planning, EO service providers, great public) fed by a service of EO high level data processing.

1.2 DELIVERABLE SUMMARY

This document is the final release of the Service Definition Document (SAFI deliverable D4.2). It presents a detailed overview of the scope of the SAFI System and Services that is developed during the SAFI project, together with their technical and functional specification.

This SAFI Service Definition document: i) recalls the users’ requirements with respects to SAFI system and thematic services; ii) provides feedback on the feasibility of these users’ requirements, and presents and justifies the actual scope expected for SAFI system and services to develop; iii) presents technical and functional specification of the whole SAFI system (generic tools) and of SAFI thematic services that have been approved for development by the consortium; iv) and updated and gives status on the development plan for each item to setup (priority level for the implementation, sharing of tasks between partners).

SAFI covers and offers 4 thematic services: Aquaculture site monitoring, Optimal location of aquaculture farms, Research support for fishery management, and Near-real-time environment monitoring for fish location. Demonstrators will be setup for several finfish and bivalves species.

The document has been updated continuously during the project to take into account feedback from users, technical obligations that could arise during system implementation and possible change in the orientation of the system functionality.