



SAFI

Support to Aquaculture and the Fishery Industry


Grant Agreement No. 607155

D4.1 – SAFI service definition, v1

Publishable Summary

Due date of delivery:	M9 (30 June 2014)
Actual submission date:	21/08/2014
Version of the document:	v1.0
Lead contractor for this deliverable:	COFREPECHE
Dissemination level for the deliverable:	RE (Restricted to the SAFI consortium members and the Commission Services)



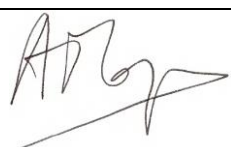

	<p align="center">SAFI – Support to Aquaculture and Fishery Industry D4.1 – SAFI service definition, draft</p>	<p>Version v1.0 Date: 21/08/2014 Grant Agreement No: 607155</p>
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REVISION RECORDS

Issue	Date	Updates	Authors
v0.9	12/06/2014	Creation	Catherine Lecouffe and Vincent Defaux, COFREPECHE Chloé Vincent, ACRI-ST Dee Mc Elligott, DOMMRS Declan Dunne, UCC
v1.0	21/08/2014	Review and complement	SAFI Consortium

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This document has been approved by:

Date	Name, Title, Beneficiary	Signature
21/08/2014	Antoine Mangin, SAFI Coordinator, ACRI-ST	
21/08/2014	Jean-Pierre Silva, COFREPECHE representative	

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
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1 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 cages 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 first release (v1.0 “draft”) of the Service Definition Document (SAFI deliverable D4.1). It presents a detailed overview of the scope of the SAFI System and Services that will be developed during the SAFI project, together with their technical and functional specification.

This SAFI Service Definition document v1.0: 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 proposes a draft development plan for each item to setup, indicating its priority level for the implementation, and the share of implementation tasks between partners.

At the current stage of the project, SAFI plans to cover and offer 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 will be 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. A final version of the document (D4.2) is foreseen for March 2016, 6 months before the end of SAFI project.



- End of the Document -