SAFI

Support to Aquaculture and the Fishery Industry

Grant Agreement No. 607155

D3.2 - User and Operation Requirement Document 2

Executive Summary

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REVISION RECORDS

Issue	Date	Updates	Authors
v0.9	12/05/2016	Initial version of D3.2	Cat Smith, Dee McElligott, Marc Shorten (DOMMRS) Rory Scarrott (UCC)
v1.0	06/07/2016	Review and Complements	Catherine Lecouffe (COFREPECHE) Chloé Vincent (ACRI-ST) Cat Smith, Julie Maguire (DOMMRS)

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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

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1.1 PROJECT SUMMARY

The Objective of the SAFI project (SAFI standing for "Service to Aquaculture and Fishery Industry") is to exploit Earth Observation 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 respect 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, 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

Coming under the heading of work package 3, deliverable 3.2 ("User and Operation Requirement Document 2") is the second, updated synthesis of user requirements gathered under the SAFI project, following on from Deliverable 3.1 "User and Operation Requirement Document 1". The document directs the outputs of SAFI services and products towards the actual needs of the sectors at which they will be aimed. To this end, the deliverable represents the collation of data from three major source headings: Aquaculture User Requirements, Fisheries User Requirements and Combined Input of potential users, project partners and interview data following three SAFI user board meetings and local opportunistic meetings. With a view to making any products and services generated by the project, potential users were consulted from the outset of the project to ensure that SAFI's planned outputs will be: (a) useful to the sectors that they are targeted, (b) achievable using the data sources, facilities and expertise of the project partners, and (c) usable, i.e. presented in a way that would allow their application to real-world situations of the sectors targeted to benefit.

As figure 1 illustrates, the first step in user requirements analysis was to gather background information about potential users. Stakeholder analysis identified the user groups who may influence or be impacted by SAFI. This helps ensure that the needs of all those involved are taken into account. The potential user groups identified by project partners were those involved in:

i) Administration - these individuals tend to have a regulatory function such as reviewing licence applications.

ii) Advisory bodies – these organisations can help to develop seafood industries by providing technical, business and financial support, and promoting responsible environmental practice.

iii) Sector (i.e. industrial sector) - this group includes all the people directly involved in getting the fish from the sea to the market.

iv) Research – these people are involved in carrying out research on fish and shellfish.

v) Consultancy – companies who are generally involved in assisting farmers to apply for licences.

A total of 22 interviews were carried out by SAFI project partners following a protocol agreed by the consortium; further, one partner undertook seven written surveys. Partners were requested to carry out interviews with people from each of the identified user groups. Following collation of the interview data received from partners, the lead partner on this task carried out an initial summarisation of the results obtained across the project consortium to allow summary data to be presented to attendees of the First SAFI Project User Board Meeting (UB1). The identified user needs were evaluated at UB1 with the initial discussion taking place to identify requirements specification to streamline the direction of the project.
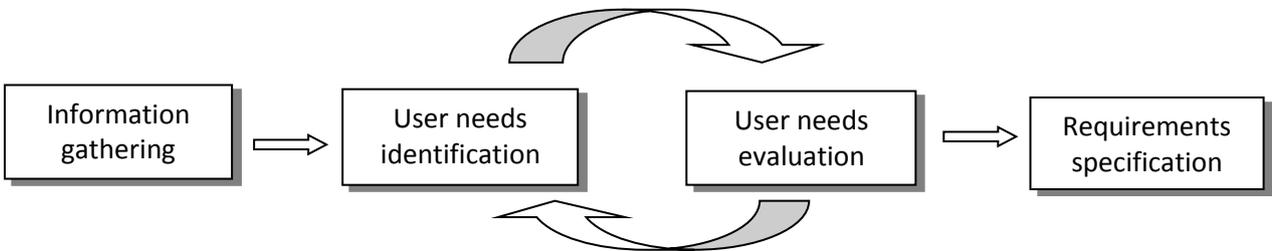

Figure 1: Work flow for gathering user requirements.

Attendees at UB1 were drawn from the five major categories of potential users, with an effort being made to obtain as even a spread across these categories as possible. In a number of cases, users had participated in the earlier part of this work package, having provided interview data, but in other cases they were coming fresh to the process. It was felt that this approach would provide a useful mix of ideas in the user board meeting. Following a general introduction to the project, as well as a more specific presentation of the results of this work package to date, small, group-facilitated discussions were held in breakout sessions at UB1 to establish the key priorities for SAFI's work according to the user board representative present. Efforts were made at achieving consensus between sectors as to mutually-beneficial products and services to be developed, in order to maximise the practical impact of project outputs.

Two additional user board meetings were held in months 20 and 31. The aims of UB2 were to gather user board feedback on the prototype SAFI service, user board advice and recommendations on commercial opportunities for the developed SAFI service, and user board recommendations to shape the training event SAFI will conduct in Month 36 (September, 2016). Following on from this, the aims of UB3 were to gather final feedback regarding SAFI's service in development, opportunities it could commercially exploit, and training guidance.

Some users attended just one UB meeting, others attended two, thus the consultations were generally a mix of people familiar with the project and the process of participation, with those who were newer to the SAFI project. The UBs included a combination of external and internal users. Information obtained during UB1 – UB3 was then integrated with data from all 23 partner interviews, plus seven written surveys to generate this document, D3.2 User and Operation Requirement Document 2.