SAFI

Support to Aquaculture and the Fishery Industry

Grant Agreement No. 607155

D3.1 - User And Operation Requirement Document 1

Publishable Summary

Due date of delivery:	M6 (31/03/2014)
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Lead contractor for this deliverable:	DOMMRS (Partner 6)
Dissemination level for the deliverable:	RE

REVISION RECORDS

Issue	Date	Updates	Authors
v1.0	02/05/2014	Initial version of SAFI Users' requirements including User Board members' inputs (UB1 meeting).	Dee McElligott, Marc Shorten (DOMMRS) Rory Scarrott (UCC)
v2.2	19/12/2014	Updated version including inputs from additional interviews in Portugal, and the French users meeting organised following PM1 meeting. Validation by the consortium.	Dee McElligott, Marc Shorten (DOMMRS) Rory Scarrott (UCC) Chloé Vincent, Antoine Mangin (ACRI-ST) Catherine Lecouffe, Vincent Defaux (COFREPECHE)

TABLE OF SIGNATURES

This document has been approved by:

Date	Name, Title, Beneficiary	Signature
19/12/2014	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   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 will finally lead 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

Coming under the heading of work package 3, Deliverable 3.1 ("User and Operation Requirement Document 1") is the first synthesis of user requirements gathered under the SAFI project and, as such, is the first key document to direct 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 the first SAFI User Board Meeting (UB1). 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, (c) usable, i.e. presented in a way that would allow their application to real-world situations of the sectors targeted to benefit.

Having identified key categories of potential user (both under the Aquaculture and Fisheries headings) during the writing of the project, and having consulted within the project consortium at its outset, it was agreed that the optimal way to gather user requirements without constraining users with partner preconceptions, was to utilise a "semi-structured interview" format. Such an approach, following a clear methodology but deliberately avoiding any potentially-leading questions, allows exploration of user needs as well as gaining an overview of their level of understanding of the potential of the project output services/products.

It also serves the purpose of engaging potential users in the project, making it clear to them that their opinions are not only valued, but are actually key to the progress and success of SAFI.

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 that 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) <u>administration</u> these individuals tend to have a regulatory function such as reviewing licence application,

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

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

iv) <u>research</u> – these people are involved in carrying out research on fish and shellfish

v) <u>consultancy</u> – companies who are generally involved in assisting farmers to apply for licences

At this stage, a total of twenty three interviews have been 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.
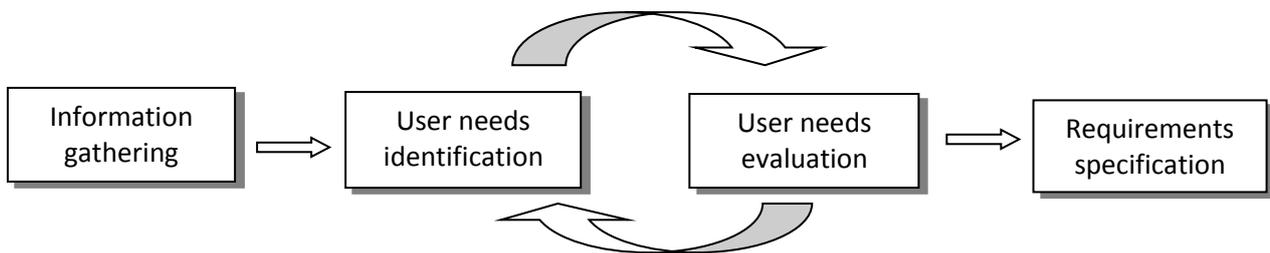
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┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│ Information   │  ⟹  │ User needs    │  ⟳  │ User needs    │  ⟹  │ Requirements  │
│ gathering     │      │ identification│      │ evaluation    │      │ specification │
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Figure 1. Work flow for gathering user requirements

Attendees at UB1 were drawn from the five major categories of potential user, 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. Information obtained during UB1 was then integrated with data from all 20+ partner interviews, plus seven written surveys to generate this document, D3.1 User and Operation Requirement.

A further meeting discussing user requirements was carried out with French users at a later date; supplementary data from this meeting was then incorporated into this updated version of the deliverable (version 2.2).

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