



SAFI: Supporting our Aquaculture & Fisheries Industries



UB3: Project Responses to User Requirements

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Objectives

- To synthesise user and operational requirements for specifications of the SAFI services
- To use this synthesis, for the generation of appropriate indicators relevant to aquaculture and fisheries
- To translate results from SAFI Correlation Studies into operationally-relevant information for the development of SAFI services



Outputs So Far

- **Initial User Requirement Document 1 from combo of:**
 - Semi-structured interviews
 - Questionnaires
 - Userboard data gathered (previous UBs) before its submission (i.e. Cork and Paris)
- **Updated document (22/12/2014) included:**
 - Additional Interviews
 - Insights from French User consultations
 - Review on SAFI's application Moroccan fisheries
 - Information on economic, operational/regulatory constraints (for fishery and aquaculture sector)



- **French Consultation Meeting**
 - Successful user consultation meeting with potential users from French aquaculture and fishery industries. Involved stakeholders and provided a wealth of new data

- **Portuguese Consultation Meeting**
 - IPMA, Olhão, Portugal on March 11th, 2015.
 - 21 participants attended this meeting, from SAFI partners and Portuguese users

Olhão Results Over...



Olhão meeting results...

- Users agreed importance of developing indicators, and potential use of SAFI service.
- SAFI service opens “new insights” and will be an “added value” for decision making processes:
 - To assist with fundamental good decisions
 - Add transparency to processes (e.g. regulation)
 - Helping with acceptance of decisions among affected people
 - Desirable to develop SAFI indicators to other species, not just to sardine and some bivalves
 - Monitoring of harmful algae blooms for aquaculture activities.

- **Species fact sheets (on farmed salmon and mussels) regarding parameters for monitoring, providing input for the development of correlations between species' growth and the environment**
- **Having consulted with local aquaculture experts information from the user requirements work fed into a Service Operations Definition document**



Current Work

- In recent months re-structuring of the user requirements document to prepare for incorporation of new data
- In particular YOUR input from this meeting, but also to allow scope for information on how services meet needs



Initially Proposed User Requirements

- Siting aquaculture & choosing appropriate cage & mooring system
- HABs & jellyfish detection and forecast
- Phytoplankton levels for shellfish carrying capacity
- Detect fish hotspots
- Water quality monitoring and classification (e.g. SFPA & EPA)
- Streamline licensing
- Useful for Environmental Impact Statement
- Exploring correlations between fish recruitment rates with environmental parameters.
- Fisheries management: decisions on fishing quotas/closures
- Monitoring impacts of farming on local environs



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User group 1—Administration

- 1) Water quality
- 2) HABs forecasting

User group 2—Advisor

- 1) Aquaculture site selection
- 2) Assisting farmers in obtaining licences

User group 3—Sector

- 1) HABs and jellyfish detection and forecasting
- 2) Aquaculture site design

User group 4—Research

- 1) Correlation studies
- 2) Understanding anomalies

User group 5—Consultants

- 1) HABs forecasting
- 2) Monitor environmental conditions

Similar Results from all areas confirm initial hypothesised applications from project proposal

“Fit” of SAFI Services with User Requirements

Demonstrable SAFI Services Developed with a Fit to User Requirements So Far...

- Aquaculture Site location – Environmental Parameters, Specific Growth Rate of Juvenile Salmon, Current Vs. Potential
- Aquaculture – HABs
- Environmental – EO data monitoring
- Fisheries/Regulation – Sardine fishery (based on observed conditions)
- Fisheries/Regulation – Shellfish Species Abundance (based on observed conditions)
- Fisheries/Regulation – Shellfish Species Maturity (based on observed conditions)
- And others.



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“Fit” of SAFI Services with User Requirements

Next Document...

- To include assessment of “fit” of SAFI services/products with user requirements specified by user consultations
- To include a detailed section on user requirements gathered, and which will be considered in any future work going forward (e.g. follow-on research projects and/or commercialisation ventures)



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Thank You!

To all correspondents that have given time and expertise to SAFI – we hope to reward your efforts with the results of ours

Ideas not immediately addressed may be in the future!

Great ideas often evolve without preconceived notions

‘Blue-sky-thinking’ can be an extremely valuable tool

The SAFI consortium aims to address all opinions expressed