WORK PACKAGE 7 – KEY PERFORMANCE INDICATORS (KPIs) IMPACT ASSESSMENT AND CODE OF CONDUCT

The Challenge
While aquaculture is recognised as an important sector for the local economy in the Mediterranean, there is a need for a reliable system to measure its environmental and technical performance at a local and regional scale. Existing performance indicator systems depend on information that can be difficult to collect, or that producers are reluctant to share publicly. Several initiatives are currently being developed, such as the Global Aquaculture Performance Index (GAPI) and the World Aquaculture Performance Indicators (WAPI) – though none specifically addressing Mediterranean sea bass and sea bream. Hence the need to develop a system to cover these species in collaboration with the producers, ensuring reliability of data and uptake by the industry.

Proposed Solution
PerformFISH has developed a KPI-based benchmarking system specifically designed for European sea bass and gilthead sea bream production. This system has been validated by industry and is based on 55 KPIs that can be easily measured by producers.

Based on the benchmarking system results, PerformFISH will also develop a Code of Conduct to increase the transparency of objectives and practices of the Marine Mediterranean Fish Farming (MMFF) sector. The MMFF Code of Conduct will provide guidelines to formulate industry Best Management Practices (BMPs) to ensure responsible performance, set harmonised standards and improve consumer perception.

Industry Consultation
To agree on the most informative KPIs and to identify the type and quality of production data that MMFF companies could provide for benchmarking.

- Asociacion Empresarial de Acuicultura de Espagna (APROMAR, Spain)
- Syndicat Français de l’Aquaculture Marine et Nouvelle (SFAMN, France)
- Associazione Piscicoltori Italiani (API, Italy)
- Croatian Chamber of Economy-Croatian Aquaculture Association (CCE-CAA, Croatia)
- Federation of Greek Mariculture (FGM, Greece)
KPI Validation Process

Nov 2017
Preliminary selection of KPIs
- Preliminary list of KPIs (133)
- Selection of KPIs
- Glossary

June – Aug 2018
Development of data collection methodology
- Methodology for KPI data recording at industrial facilities
- Development of datasheets for data collection

Dec 2017 – April 2018
Industry Consultation Process
- Consultation with Producers’ Associations and farm managers
- Parametrisation of data recording (inputs/outputs)
- 55 KPIs selected by industry

Sept – Oct 2018
Industry Training on KPIs
- Training on KPIs to farm managers (Croatia, Spain, Italy, Greece, France)
- Manual on Standard Operating Procedures

PerformFISH KPI System

55 Key Performance Indicators

35 Technical Performance Indicators (T-KPI) for ranking biological performances of batches and technical efficiency.

14 Environmental Performance Indicators (ENV-KPI) to assess the impact of farming practices on the preservation of biodiversity and habitats, the use of natural resources, water, space and energy use, and its ecological footprint.

9 Welfare Performance Indicators (W-KPI) to assess welfare at different life stages and in relation to different culture systems and husbandry practices.

2 Economic Performance Indicators (E-KPI) for estimating productivity and efficiency of aquafarms.

PerformFISH KPI System

Going Forward (2019-2022)
The benchmarking system is currently being tested by 20 MMFF companies across 40 farm sites. The resulting real-time data provided by the companies will represent current operational values across the industry. This baseline information will be used, not only to establish realistic quantitative production targets, but also to evaluate the success of the PerformFISH solutions on operational performances. Based on the results of the testing, the KPIs will be adapted to provide a fully validated system that can be used by the industry after the end of the project.

Carrying out testing of Key Performance Indicators over 3 years

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