Acronym: PerformFISH

Title: Consumer-driven production: Integrating Innovative Approaches for Competitive and Sustainable Performance across the Mediterranean Aquaculture Value Chain

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Dissemination and Exploitation Plan

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Table of Contents

Summary 3
1 Introduction 4
2 PerformFISH Stakeholders 6
3 PerformFISH Knowledge Management and Knowledge Transfer 6
3.1 Collect 8
3.2 Analyse 9
3.3 Transfer 9
3.4 Legacy and Sustainability 11
4 PerformFISH Exploitation 12
4.1 IPR management 13
4.2 Innovation Management 14
4.3 Data Management 15
4.4 Training & Capacity Building 15
5 PerformFISH Dissemination Activities 16
5.1 Project Branding (Logo) 16
5.2 Factsheet 17
5.3 Website 18
5.4 Social Media 19
5.5 Newsletters 19
5.6 Press Releases 19
5.7 PowerPoint Template 20
5.8 Other Promotional Material 20
5.9 Scientific (Peer Reviewed) Publications 20
5.10 Events 20
6 Links with other projects 21
7 Reporting on Dissemination and Exploitation Activities 21
8 DEP Validation and Recommendations 24
9 Annex I – Glossary 25
10 Annex II EC Rights and Obligations Related to Results 27
10.1 Ownership of results 27
10.2 Protection of results 27
10.3 Exploitation of results 27
10.4 Dissemination of results — Open access — Visibility of EU funding 28
Annex III– Knowledge Output Table 30

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Summary

Objective:
The PerformFISH Dissemination and Exploitation Plan (DEP) describes the activities to be performed and the channels to be used to promote and disseminate the project and its outputs, and to exploit the project results.

Rationale:
The DEP contains a set of protocols to ensure that all relevant knowledge coming out of PerformFISH is carefully managed. The protocols are set up for:

a) KNOWLEDGE MANAGEMENT – to ensure the timely identification and collection of Knowledge Outputs generated by PerformFISH to inform dissemination and exploitation activities.
b) DISSEMINATION – to raise awareness of the project, its rationale, its objectives, the partnership, project progress, funding and explaining the importance of the Mediteranean Marine Fish Farming (MMFF). Community engagement and outreach is included here– to ensure that the public and consumers are aware of the socially and culturally responsible manner in which the industry operates.
c) EXPLOITATION and IMPACT – to effectively and pro-actively transfer knowledge, resulting in uptake and exploitation by different end-users which will provide measurable impacts for PerformFISH while ensuring PerformFISH foreground and Intellectual Property (IP) are properly managed.

PerformFISH will develop and make use of the latest tools, resources and communication channels resulting in cost effectiveness and maximum impact.

The Dissemination and Exploitation Plan has been developed by AquaTT, who are responsible for its coordination. However, all project partners are involved in dissemination and exploitation in order to foster awareness and transfer results for impact, especially in their own countries and in their own communities.

Team involved in deliverable writing: AquaTT

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1 Introduction

To ensure effective dissemination, technology transfer and knowledge transfer as well as capacity building, a dedicated Work Package – WP8 – is part of the PerformFISH project. A Dissemination and Exploitation Plan DEP (D8.1) (contained herein) was drafted at proposal stage and after finalisation was implemented immediately upon project commencement. The DEP will be continuously reviewed and updated periodically throughout the project lifetime to ensure that it remains fit-for-purpose (D8.4, D8.5, D8.6, D8.11).

Professional science communicators, AquaTT, together with all project partners, will implement efficient and effective Knowledge Management activities; dissemination, exploitation, knowledge transfer and outreach. This will ensure that any valuable knowledge generated in the project is identified and not only made accessible to potential end-users but is also transferred to them. Potential end-users include the MMFF industry and multiple industries constituting the complete value chain, policy makers, the research community and the public. WP8 exploits and reinforces existing networks to achieve a measurable impact, fostering market uptake, positive evolution of legislation and social acceptability.

Specific objectives of the DEP are to:

- Promote the project activities and results beyond the consortium to the scientific community, industrial stakeholders, policy actors and society
- Capture key messages and outcomes for active knowledge transfer through training and communication tools
- Ensure appropriate intellectual property rights (IPR) are considered for optimal exploitation of project results
- Identify and ensure efficient exchanges with targeted stakeholder groups
- Address social acceptability issues by carrying out targeted communication actions to policy makers and society

The foundation of the PerformFISH DEP is the Knowledge Management processes which will be implemented from the start of the project. This will inform both the dissemination and exploitation activities as well as overall Knowledge Transfer of project results. PerformFISH distinguishes between dissemination and Knowledge Transfer as follows:

- Dissemination is a form of Knowledge Transfer, but is seen as one-way promotion and is effective in raising awareness and sharing information. A range of dissemination activities will take place particularly in the early phases of the project to raise awareness of the existence of the project, its objectives, partners and intended impacts. Activities used for dissemination purposes are for example the public website, press releases, publications, and attendance at events.
- Knowledge Transfer is a more advanced version of dissemination and requires several more crucial steps, such as identifying exploitation mechanisms, pathways, actors and activities, designing Knowledge Transfer Plans around the profiles of target users, to ensure impact and uptake of the results.

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Each beneficiary has an obligation to protect, disseminate and exploit results it has generated through the PerformFISH project. See Annex 2 for specific details.

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2 PerformFISH Stakeholders

Producers in five countries are actively involved in the project via their associations:

- Federation of Greek Maricultures (FGM) - Greece
- Croatian Aquaculture Association (CAA) - Croatia
- Italian Fish Farmers Association (API) - Italy
- Syndicat Français de l'Aquaculture Marine et Nouvelle (SFAMN) - France
- Asociación Empresarial de Acuicultura de España (APROMAR) - Spain

However, PerformFISH targets all producing countries within the Mediterranean basin understanding that it is a shared resource with shared challenges and the success of the industry in all countries is linked. To that end, PerformFISH end-users include:

- All producers and stakeholders that can contribute to a sustainable sector

PerformFISH also targets a wider community including:

- Policy actors
- Research Community
- General public
- Consumers

A detailed stakeholder database will facilitate the communication with all the stakeholders involved in PerformFISH by centralising their contact details and classifying them according to their level of engagement with the project. Depending on their level of engagement, different dissemination and exploitation mechanisms will be employed.

The stakeholder database aims to facilitate dialogue, relationship building and process generation that will take place between the PerformFISH consortium and other organisations involved or interested in the project. It will be maintained and updated for the duration of the project.

PROTOCOL - PerformFISH Stakeholder Database

All PerformFISH partners are expected to add relevant contacts and information to the PerformFISH Stakeholder Database. Suggestions can be sent to the WP8 leader AquaTT (cliona@aquatt.ie) who will keep control of the MASTER database. The MASTER document will be uploaded to and available from the collaborative platform >> WP8.

3 PerformFISH Knowledge Management and Knowledge Transfer

In its broad-based innovation strategy for the EU, the importance of improving Knowledge Transfer between public research institutions and third parties, including industry and civil society organisations was identified by the European Commission as one of ten key areas for action (http://ec.europa.eu/invest-in-research/pdf/download_en/knowledge_transfer_web.pdf). To be able to transfer knowledge we need to manage knowledge. Knowledge Management is the process of creating, organising, capturing/sharing/distributing knowledge to ensure its availability for future users.

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Including robust Knowledge Management processes from the start of the PerformFISH project will enable efficient, targeted and impact orientated planning for the dissemination and exploitation of the project and its results, including effective knowledge transfer.

The Knowledge Management methodology applied in the PerformFISH project is based on the methodology originally developed in the FP7 MarineTT project, and subsequently developed to its existing design by the Horizon[2020] COLUMBUS project. This methodology has been applied in many FP7 and Horizon 2020 projects such as AQUAEXCEL, AQUAEXCEL[2020], AquaInnova, ARRAINA, ATLAS, COEXIST, COMMON SENSE, ECsafeSEAFOOD, MaCuMBA, MG4U, ParaFishControl, REvivED water and STAGES.

The methodology focuses on Knowledge Outputs, where a "Knowledge Output" (KO) is described as:

"a unit of knowledge that has been generated out of a scientific project. It is not limited to de-novo or pioneering discoveries but may also include new methodologies/processes, adaptations, insights, alternative applications of prior know-how/knowledge" (*Definition developed by AquaTT in the context of Knowledge Management in the MarineTT project).*

The methodology consists of the following phases:

a) Collect
b) Analyse (including assessing knowledge and profiling Target User)
c) Transfer (including develop a plan and measuring impact)

By carrying out the prescribed knowledge management approach as an integrated part of the project design, it will also be possible to capture KOs related to methodologies, protocols and experimental approaches as used in the project. Typically, such knowledge might be referenced as a small part of a published paper, potentially three to five years after the approach is pioneered in a research project. By monitoring, collecting and managing such outputs within the project it will be possible to fast track such knowledge which in turn can be adopted by other scientists working in the field and therefore advance scientific development in the research community. All captured knowledge will be assessed, and will be recorded in line with the Consortium Agreement (CA), respecting privacy and Intellectual Property Rights (IPR) requirements. This approach is essential to avoid unforeseen delays or obstacles related to confidentiality or competitiveness and, also, to provide partners with the security they need to allow them to be transparent in their findings thus enabling the project to quickly identify opportunities for exploitation. The overall objective is to ensure the fastest route for new knowledge to market.

PerformFISH Industry Role in Knowledge Management and Transfer

PerformFISH have put in place two separate industry-represented committees to provide input, feedback and direction to the project in line with the MMFF sector needs. The role of these two committees within the DEP is to guide, advise and validate proposed IPR solutions, Knowledge Transfer activities, and exploitation mechanisms. Their specific responsibilities include:

The Industry Technical Experts Committee (ITEC)

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ITEC consists of technical experts in the fields of genetic selection, fish biological cycle, fish health, fish nutrition, and marketing. ITEC members are operational experts in MMFF companies and are appointed by the Producers' associations, i.e. FGM, CAA, API, SFAMN, APROMAR. The ITEC industry experts will both advise and take an active part in transfer, ensuring that the PerformFISH results are fed to the sector in a way that results in uptake, exploitation and impact on Key Performance Indicators (KPIs).

The Industry Strategic Advisory Board (ISAB)

ISAB consists of high level executive representatives of the MMFF. Each association FGM, CAA, API, SFAMN, APROMAR has appointed three members in the ISAB. This 15-member board will be responsible for identifying and settling IPR underlying promising innovations to be directly transferred for application in MMFF sector (WP9).

3.1 Phase 1 - Collect

All PerformFISH Knowledge Outputs will be captured in an internal Knowledge Output Table (Annex III).

PROTOCOL

1. The PerformFISH WP leaders will be requested to complete the Knowledge Output Table (KOT) for any Knowledge Outputs related to their Work Package on a half yearly basis, starting in Month 18 and finishing in M60.
2. If the Work Package leader thinks another partner is better placed to provide the requested information, then (s)he should send it to the relevant person(s).
3. For each identified KO, all fields of the KOT should be completed. Explanation is provided under each question.
4. The completed KOT should be sent to **AquaTT** (Cliona Ní Cheallacháin – cliona@aquatt.ie; with Marieke Reuver - marieke@aquatt.ie in cc).
5. First validation of the KOT will be carried out by **AquaTT**, whereby:
    - any typographical/editing errors will be corrected;
    - it will be determined if the short title of the KO(s) is adequately informative;
    - it will be established if the knowledge description of the KO(s) is comprehensive enough to adequately understand the nature of the KO and to determine its possible application;
    - potential end-users of the KO will be identified and listed, as well as their potential application; and,
    - it will be clarified if the KO(s) is publicly available or is subject to issues of Intellectual Property (which would have an effect on transfer potential).
6. If deemed necessary, **AquaTT** will contact the KO owner to discuss the KO and identify if there is anything missing or unclear.
7. Confidentiality: Each partner will treat information from other partners as confidential unless otherwise stated and not disclose it to third parties unless the information is publicly available.

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3.2 Phase 2 - Analyse

In the analysis stage, the collected knowledge will be carefully assessed and additional information asked for if needed. Within the fields “End User” and “Potential Application”, it should be indicated who could use the KO, and how could they use and apply the KO. There can be more than one type of end-user and per identified end-user there could be several possible applications. A new row should be utilised for each of these cases. For ease of possible transfer, the more specific the end-user the better, for example instead of just ‘Policy Makers’ it would be preferred to indicate the exact type and level also, e.g. European Commission – DG Research & Innovation / Directorate E (Health) / E1 Strategy.

PROTOCOL:

1. **AquaTT** will pass all KOs to the ITEC and ISAB, whose role it is to:
    a. Highlight ethical issues and IP needs for KOs;
    b. Perform due diligence on the KOs – a thorough examination and evaluation of the KO and its applicability and readiness for transfer;
    c. Identify potential opportunities to exploit PerformFISH’s KOs to policy, industry, science and society;
    d. Design initial Knowledge Output Pathways (with support from AquaTT) for each KO: The Committees should identify an eventual impact for each KO. A pathway to this eventual impact should be constructed and the Target Users along this path identified and profiled.

3.3 Phase 3 - Transfer

Knowledge Transfer is “the term for the overall process of moving knowledge between knowledge sources to targeted potential users of knowledge. Knowledge Transfer consists of a range of activities which aim to capture, organise, assess and transmit knowledge, skills and competence from those who generate them to those who will utilise them.” (*Definition developed by AquaTT in the context of Knowledge Transfer in the COLUMBUS project)*

Knowledge Transfer encompasses both commercial and non-commercial activities such as research collaborations, consultancy, licensing, spinoff/spinout creation, researcher mobility and publications. Knowledge Transfer aims to support mutually beneficial collaborations between universities, businesses and the public sector. It is about the transfer of tangible and intellectual property, expertise, learning and skills between the research community and the non-academic community. The benefits of knowledge transfer – in other words, the exploitation of research - go beyond simple financial return. The benefit also lies in a number of other, less tangible, benefits for research institutions, for industry and for society as a whole, such as helping research institutions focus their research on the wider needs of society and industry (http://europa.eu/rapid/press-release_MEMO-07-127_en.htm).

Some of the **Knowledge Transfer activities** that will take place during Perform Fish include:

- **Transfer from PerformFISH to industry**

The industry itself will be applying and testing the new combined knowledge from the project via activities in technical WP’s and field trials in WP6. New knowledge, new vaccines, new services and

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technology is expected to be produced and PerformFISH consortium aggregates the service providers, vaccine and technology developers and strong scientific actors that will engage in direct exploitation of the project outputs.

- **Transfer from PerformFISH through the Producer Associations to their members**

The five Producers Associations bring a major advantage to PerformFISH and will play a crucial role in being a conduit to their members on progress and results in real time.

- **Transfer of consumer and marketing related knowledge internally and externally**

Marketing and consumer analysis and KPI data analysis in WP7 will generate new knowledge and insight that can be fed internally to technical WPs where relevant and externally to various end-users across the industry value chain.

- **Transfer of policy-related knowledge from PerformFISH to regulatory bodies**

Knowledge related to the policies governing the function and development of MMFF will be communicated to national and European policy-making authorities. The producers' associations will facilitate the interaction of the consortium with the regulatory bodies.

Knowledge Transfer Plans (D8.4) for individual or clusters of KOs will be developed as they are generated from the project and the partnership will identify suitable channels and means for transferring the KO and offering it for exploitation to the whole MMFF sector. This customised approach will increase the likelihood that 1) the KO is successfully transferred and the knowledge applied; 2) there is an increased potential for impact from the transfer; 3) it is possible to measure and demonstrate the impact of the KO transfer.

Impact Measurement

The impact of Knowledge Transfer activities will be measured using indicators. The Key Performance Indicators (KPIs) will be the core indicators of impact. Four different types of KPIs will be considred:

- Key Technical Performance Indicators *(T-KPI)* for ranking biological performances of batches and technical efficiency;
- Key Economic Performance Indicators *(E-KPI)* for estimating productivity and efficiency of aquafarms;
- Key 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;
- Key Operational Welfare Performance Indicators *(W-KPI)* built into task 3.5 to assess welfare at different life stages and in relation to different culture systems and husbandry practices.

Detailed KPI values will be determined in the context of WP7 at the beginning of the project and they will make the reference values for measuring the impact of PerformFISH as a holistic intervention along the value chain. The ITEC will supervise this task to ensure that the list of KPIs is realistic and fit-for-purpose. Wide acceptance of the KPI system by the MMFF sector is the ultimate target in order to establish a long-lasting impact assessment and benchmarking system.

Additional indicators of impact might include:

- Number of (scientific) publications

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- Number of research agreements with SMEs
- Number of spin-offs, patent grants, etc.
- Number of technologies/new knowledge validated by the industry
- Number of companies who use the knowledge generated from the project
- Number of companies who adopt and participate in the KPI benchmarking
- Number of KOs contributing to FOOD 2030 R&I priorities[1] and to the achievement of Sustainable Development Goals (SDGs)[2]

The measurement of impact will be done for two timelines, short term (within the project lifetime) and projected long term.

PROTOCOL

The following steps will be taken in Phase 3 – Transfer;

1. Once the Knowledge Output Pathways are approved, draft Knowledge Transfer Plans will be designed by AquaTT. The Knowledge Transfer Plans will include proposed mediums and channels for transfer as well as indicators that can be used to measure impact. These will be passed to the ITEC for approval. Whenever necessary, the ISAB will be consulted to discuss the most appropriate way to transfer the KOs (exploitation mechanisms and partners).
2. After approval by the ITEC, AquaTT will coordinate the implementation of the Knowledge Transfer Plans with assistance from partners where required.
3. AquaTT will measure the impact of the Knowledge Transfer activities using the predetermined metrics appointed in the associated Knowledge Transfer Plan.

Within the PerformFISH project, it is envisaged to use a range of channels, media and impact measurement to ensure effective knowledge transfer, which will vary depending on the KO type.

3.4 Legacy and Sustainability

WP8 activities are planned across the full duration of the project. WP8 efforts are an important aspect of the legacy and sustainability of the project and include the following:

- Through demonstrating impacts and benefits to the industry, it is expected that activities will be continued beyond the timeframe of the project.
- With the producer organisations as partners, there are key channels of communication open independent of the project, allowing the continuous transfer of PerformFISH knowledge to support the sector.
- All KOs identified in the project will be uploaded to the Marine Knowledge Gate (hosted by EurOcean) and the EC Marine Information Sharing Platform.
- Access to project results post-project will be assured via the project website which will remain live for at least seven years after the project finishes and will contain all public deliverables.

[1] European Research % Innovation for Food & Nutrition Security (2016) http://ec.europa.eu/research/bioeconomy/pdf/food2030_conference_background.pdf

[2] Commission staff working document SWD(2016) 390 final: Key European action supporting the 2030 Agenda and the Sustainable Development Goals

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PerformFISH has developed specific measures to achieve different impacts in the call topic. The DEP and the processes described within will ensure that appropriate activities are carried out to reach different audiences with tailored messages and for specific purposes, overall the intention is to carry out customised Knowledge Transfer and measure impacts.

4 PerformFISH Exploitation

The transfer of the developed know-how, which will lead to the exploitation of the results, is integrated into the project through the involvement in the consortium of industrial partners and SMEs who can take the generated knowledge to the next level. Key exploitation activities of the project include:

- Research and technology development
- Market validation
- Demonstrations
- Prototype testing
- Benchmarking

Vaccines and diagnostic services, genotyping services and benchmarking services of juvenile quality will be key outputs of PerformFISH for immediate production and provision by the project partners. The objective is to fast track the innovative results to market.

At the proposal development stage, operational KPIs have been shared between industry and the research community. This led to the prioritisation of actions within the design of PerformFISH that contribute to improve KPIs within the funded duration of the project. This entailed identifying “state of the art” research and knowledge outputs of Technology Readiness Level (TRL) at a validated laboratory solution level (TRL1-4) or in an industrial relevant environment (TRL5). The ambition of PerformFISH is to move knowledge outputs up the TRL ladder towards industrial application (TRL9) within the project duration. The combined effect of the application of such knowledge and technologies on fish farms will result in achieving improved KPIs, increased productivity and sustainable growth.

PerformFISH will follow the rules for IP set out by the European Commission. ISAB will be responsible for identifying and settling IPR underlying promising innovations in farming processes and technology to be directly transferred for application in MMFF sector (WP9). Detailed knowledge and technology transfer and exploitation plans will be developed in WP8 to highlight the steps and resources needed to ensure effective exploitation.

The scientific actors of PerformFISH are established scientists and teams that will responsibly use the new scientific knowledge to further advance the research and secure funding beyond PerformFISH. The PerformFISH core concept is to help MMFF advance towards sustainability supporting the Common Fisheries Policy, the Blue Growth agenda and the Sustainable Development Goals (SDGs).

WP8 completes the conceptual approach of PerformFISH with a significant component dedicated to capacity building aiming at updating the knowledge basis of MMFF professionals to help them embrace and implement innovation in everyday production practice.

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PerformFISH is designed to develop and validate an array of innovative solutions, technologies, processes and strategies to boost the sustainability and competitiveness of the MMFF sector. Two management bodies, ITEC and ISAB, consist exclusively of industry representatives and experts and are directly involved in the innovation management of PerformFISH. Innovation to be produced in PerformFISH is driven by the MMFF sector's demand and the direct uptake will be employed by the strategic planning of ISAB supported by ITEC, respecting the rules for IP set out by the EC and included in the consortium agreement (CA).

PROTOCOL

1. **AquaTT** will circulate a template to partners to collect information on exploitable foreground, requesting the following information:
    a. Identification of Exploitable Foreground:
    b. Type of Exploitable Foreground
    c. Description of exploitable foreground
    d. Exploitable product(s) or measure(s)
    e. Sector(s) of application
    f. Owner & Other Beneficiary(s) involved

4.1 IPR management

The CA follows the standard rules as outlined in the DESCA (Development of a Simplified Consortium Agreement) model for Horizon 2020. This defines the main approach regarding the ownership, protection and access to key knowledge like IPR and data. This approach will allow PerformFISH to collectively and individually pursue market opportunities arising from the project's results. PerformFISH will follow the rules for IP set out by the EC, specifically:

"Background" i.e. partners' pre-existing know-how, while remaining the sole property of their owners, will be made available to other partners when needed for the project implementation;

"Results" i.e. knowledge developed through the project, will be owned by the partners who have directly contributed to its creation. In case of joint ownerships, a separate contract will be drawn up and signed by the co-owners to determine rights and obligations, and settle the IP management and exploitation rules;

Access rights to results for in-house research or for teaching activities will be granted on a royalty-free basis;

Results including commercialisation or third-party research will be granted on fair & reasonable conditions; Any proposed publication by one of the parties will be submitted to all partners for consent as per DEP. All publications will be either gold or green open access in accordance with the H2020 requirements.

See Annex II for further detail on ownership.

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PROTOCOL

1. AquaTT will circulate a template to partners to collect information on IPR procured for results, requesting the following information:

    a. Identification of IPR type and Confidentiality
    b. Type of IPR (Patent/Trademark/Registered Design/Utility Model/Other)
    c. Confidentiality (Yes/No)
    d. Application Title
    e. Embargo end date

4.2 Innovation Management

ISAB will be responsible for identifying and handling IPR underlying promising innovations to be directly transferred for application in the MMFF sector. The expected innovation outputs that will become available to the MMFF sector during and upon completion of PerformFISH are:

- Genetic resources
- Certificate of juvenile quality
- Vaccines
- Therapeutics
- Feeding technology and models
- Toolboxes
- Operational Welfare Indicators
- Branding product label
- Marketing strategies
- A validated KPI benchmarking system

ISAB represents the highest level of the MMFF sector within PerformFISH and will plan legacy activities to capitalise on these innovations.

Partners who own knowledge suitable for patenting will be encouraged to fill in applications for patents or a similar form of protection and shall supply details of applications to the other consortium partners. Branding and establishment of Certification systems will also be considered in the processes to ensure PerformFISH legacy (D9.4). Specific confidentiality agreements will be signed among partners involved in tasks with sensitive IP and commercial issues, if required. The WPs have been planned and designed to optimize the use of data and avoid conflicts of interest between partners.

In addition to the Knowledge Transfer of results as outlined above, the KOs and resulting Knowledge Output Tables will be uploaded to the Marine Knowledge Gate, originally developed by MarineTT and hosted by EurOcean (http://www.kg.eurocean.org/). The MKG is a repository which incorporates hundreds of KOs from marine projects funded by Europe and Member States.

WP8 will oversee the effective management and transfer of the KOs resulting from the PerformFISH project. Effective Knowledge Transfer ensures that PerformFISH research results eventually exert an effective impact on EU competitiveness.

PROTOCOL

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1. AquaTT will circulate a template to partners to collect information on Innovations procured, requesting the following information:

    a. Type of Activity (Prototype Testing/Clinical Trials/Feasibility Studies/Demonstration Trials)
    b. Type of result going to Market (New products/New Process/New Method)
    c. Number of private companies receiving innovation (SMEs)

4.3 Data Management

Given PerformFISH's integrated design with industry actors, confidential commercially sensitive data will also be collected to help benchmark the sector and the projects impacts on target KPIs. As such, careful attention will be paid to managing data and will be outlined in the Data Management Plan (DMP), consistent with the GA and CA. A specific deliverable on PerformFISH Data Management – D8.3 will be submitted in M6 (October 2017).

4.4 Training & Capacity Building

Capacity building is a specific impact as specified in the call and will be addressed via a dedicated task (8.5). In close consultation with the industry partners there will be 26 capacity building events:

- Nine different courses
- A final symposium

Target audiences vary for the different courses as described in the table below. Duration of events has been kept short to reduce the time workers are away from their businesses and farm relevant courses will be replicated in each production country (five) enabling access and customisation to different types of farming practices. The five associations will be in charge of local organisation and recruitment of target audiences as well as translation if required. Technical partners in each WP have committed to delivering the courses and their efforts are held in their respective main WP budget. Appropriate pedagogy and training material development will be assured via the academic partners and AquaTT who has extensive experience in vocational training course design and delivery.

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No.	Short Title	Duration	Courses	Target Audience
1	Selective breeding and issues associated with the use of genetics/genomics in aquaculture	1 day	1	High Level for businesses running or interested in breeding programmes
2	Hatchery Course - Quality indicators and quality manipulation of juveniles in hatchery stage + Masterclass on broodstock feeding techniques - epigenetics	2 days	1	Technical for hatchery managers and technicians
3	Workshop on a certificate of Juvenile quality	1 days	1	High Level - ISAB representatives
4	Animal Health - Masterclass on Good Practices for health Management with (Animal Health Training on Diagnostics and Vaccines) + Implementing Fish Operational Welfare Indicators (OWIs)	3 days	5	Management/Technical/scientific staff
5	Threshold of nutritional quality of feeds for seabream and seabass production	2 days	1	Stakeholders, suppliers and farmers interested in animal feed
6	Farm Management including Feeding Strategies	1 day	5	Management/Technical/scientific staff
7	Final PerformFish Results Seminar per country (WP key results, KPI impacts, code of conduct etc)	3 days	5	Management and Technical/scientific staff
8	Masterclass on marketing & Consumer Preferences, including understanding Consumer insights with regard to attributes that should be emphasised in a "Europe Label" for BB products	2 days	1	Marketing companies/consultants and association directors
9	Workshops for metrics system for benchmarking performances of aquafarms, including knowledge on the KPIs used and on methodology for data collection and recording. Also, functions and services of the VRE tools (IT Tool - task 7.2)	1.5 days	5	Companies that will feed KPI data to WP7
10	PerformFISH Final Med Symposium (including overall presentation of results/achievements/ code of practice)	2 days	1	All stakeholders + GFCM, IUCN, non-partner country participation
		Total	26	

5 PerformFISH Dissemination Activities

The importance of disseminating knowledge and results from research projects has been recognised by the EC as one of its priorities (COM(287)182 final). Dissemination of results is a contractual obligation of participation in research initiatives supported under the European Union's Horizon 2020 research and innovation programme. The specific aims of this provision are to promote knowledge sharing, greater public awareness, transparency, and education. The dissemination involves not only looking at where and when the information should be disseminated but also what should be communicated and how it should be presented.

5.1 Project Branding (Logo)

A specific project logo has been developed for project identity. The logo will be included in all project promotional material including the factsheet, website, etc. A project Brand Guide has also been developed to provide partners with support and guidance on the use of the project logo and branding.

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Primary Logo - universal use

Positive Greyscale Logo

Negative Greyscale Logo

The logos can be downloaded from the project BASECAMP or contact WP8 leader AquaTT.

5.2 Factsheet

A PerformFISH factsheet has been developed in the first half year of the project and will be continuously distributed over the course of the project. The factsheet describes the project, its main objectives, methodology, partnership, funding and expected impact, and is used to raise general awareness of the project.

The factsheet is available for download from the collaborative platform, the project website and by contacting WP8 leader AquaTT. Partners are encouraged to distribute the factsheet through their networks and at relevant events.

For each technical WP, a fact sheet will be produced outlining the approach, the planned experiments and activities so that it can be used as a tool for partners and third parties to explain activities and their role to internal and external collaborators and interested stakeholders at a local and national level. These factsheets will be updated periodically.

PROTOCOL - Factsheet

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All partners will be provided with an electronic copy of the project factsheet for distribution (print and/or electronic) to their personal and institution network of contacts. Partners can translate the leaflet into their own language. The protocol for translation is as follows:

1. Partner contacts AquaTT requesting English text to be translated
2. AquaTT supplies a template with the original text in English to partner
3. Partner translates text (as laid out in the template) into their language
4. Partner then sends translated text back to AquaTT
5. AquaTT applies the translated text to the leaflet design template and publishes the new version of the leaflet

5.3 Website

The dedicated PerformFISH website – www.Performfishproject.eu – has been set up following the EU Project Websites – Best Practice Guidelines. The website plays multiple roles:

- A communication resource to promote the project, its objectives and partnership
- A communication resource to update interested parties on progress, results and outcomes
- A repository for public deliverables

The public project website is visually attractive and informative and includes a link to the web-based collaborative workspace (BASECAMP) to facilitate continuous project partner communication. New visual media and dynamic outreach products are and will be used (videos, animations, interactive tools, newsletters, etc.) on the website.

Key features of the website include:

- **A calendar** - includes all the events organised by the PerformFISH consortium as well as events where PerformFISH partners are going to be represented and any other events of interest to the partnership.
- **News section** - regularly updated throughout the project's lifetime with news on the project as well as external news relevant to PerformFISH**.**
- **Media centre** - houses all dissemination products and activities including open access scientific papers, articles, press releases and the project factsheet.
- **Repository of public deliverables and results** - uploaded to the website as they become available

PROTOCOL – website

AquaTT has set up and will manage the PerformFISH public website (www.Performfishproject.eu) including updating it on a regular basis. Any partners who wish to upload materials, news or events to the website should contact AquaTT (cliona@aquatt.ie). Partners are requested to include a link to the PerformFISH website on their own institution websites. **University of Thessaly** manages the PerformFISH collaborative platform (BASECAMP) and any questions and queries should be directed to Georgia Ritou (Performfish@gmail.com).

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5.4 Social Media

Social networking is part of the PerformFISH communication strategy. Currently (August 2017), Twitter (https://twitter.com/PERFORMFISH_EU) is used to tweet PerformFISH relevant information.

PROTOCOL – Social Media

The PERFORMFISH social media accounts (Twitter) have been set up by WP8 leader **AquaTT** but partners are invited to share, (re)tweet and forward relevant information. Partners should aim to contribute to other Social Media channels, such as other Twitter, Facebook and Vimeo channels where possible. AquaTT can be asked for support. Additional social media platforms, such as LinkedIn and Facebook, will be considered as the project progresses, if deemed appropriate.

5.5 Newsletters

PerformFISH will have a dedicated project newsletter; five editions in total. They will be developed annually over the course of the project. The PerformFISH newsletter will highlight project results and include project news, external news and relevant information on the Mediterranean Aquaculture industry. The newsletter will be sent out to:

- Project partners
- Stakeholder database contacts
- Any other interested individuals

The PerformFISH project website and the collaborative platform will store the newsletter archive.

PROTOCOL – newsletter

AquaTT will design, develop and distribute the PerformFISH newsletter, but input from all partners regarding ideas and content is required. All PerformFISH Parties will be given prior notice of planned publication, in order to allow for review and feedback. In case one has an objection, the objection should include a precise request for necessary modifications. Partners are expected to send the newsletters to their own contacts and networks for optimum distribution and dissemination.

5.6 Press Releases

News of the project will be disseminated regularly, making use of a range of publications and services. Press releases will be issued to appropriate media outlets (trade press, journals, web portals) to ensure that industry, civil society organisations, policy-making authorities, and the wider community are aware of the project, its objectives and, later in the project, its outcomes. The strategy is intended to ensure that there is publicity and media coverage at local, regional and European levels. WP8 leader AquaTT has several existing channels and networks for disseminating news which will ensure a broad awareness of the project across the spectrum of relevant European stakeholders:

- Training News e-newsletter (almost 5,000 subscribers)
- Social Media channels (Twitter, Facebook etc)
- LinkedIn groups
- Technology platforms (i.e. EATIP and EFTP)
- Relevant EC projects and initiatives

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Other partners are encouraged to publish articles and press releases at regional, national and international level, making use of their own communication networks and channels.

PROTOCOL – Press Releases

AquaTT will take the lead in writing press releases based on partner's inputs and news. Once approved, they will be disseminated using the channels mentioned above, and any other relevant means. Publications will also be uploaded to BASECAMP and all partners will be encouraged to distribute at a national or regional level. Where necessary the partners can adapt the press releases to customise them to their audience and if needed translate the articles. Partners who publish any article/press release at a regional or national level must send a copy to the WP8 leader (cliona@aquatt.ie). Where partners want to initiate the writing of an article, they may proceed. They can contact **AquaTT** who can offer support for writing and editing and will provide graphics and images if required.

5.7 PowerPoint Template

A PerformFISH PowerPoint template was developed to use at internal and external events when presenting the PerformFISH project and/or its outcomes.

PROTOCOL – PowerPoint Template

Partners should use the PerformFISH PowerPoint template when presenting the project and/or its outcomes at internal and external events. The ppt is available through BASECAMP.

5.8 Other Promotional Material

Other promotional material can be developed if required and depending on budget available, e.g. fun gimmicks for a wider promotion of the project.

5.9 Scientific (Peer Reviewed) Publications

When research outcomes become available, PerformFISH partners are encouraged to publish results in high-impact, scientific (peer reviewed) publications. The PerformFISH consortium will comply with the GA rules on open access publications (Green or Gold). All publications (final articles or manuscripts accepted for publication) will be deposited into the institutional repository of the research institution with which they are affiliated or in an appropriate subject based/thematic repository. These repositories will make sure that the embargo period is respected and will make connection with the EU OpenAIRE repository. To promote open access publishing within the consortium, a budget has been provided for all WP leaders to pay for such publications containing results produced from the tasks they supervise. See section 6 for details.

5.10 Events

- Project events: The final symposium will be a major event bringing together all stakeholders across all Mediterranean countries to present the cumulative results of the projects, its impacts and achievements.

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- External events: The project results will also be presented as oral presentations, posters, etc. at major international meetings and conferences such as Key marine/maritime events (e.g. World Ocean Day, Maritime Day etc.) and sector specific events (e.g. EAS conferences, EATiP assemblies, GFCM-CAQ, Aquanor etc). Congresses, seminars, conferences and other meetings are very useful forums to consult with PerformFISH target audiences in a face-to-face capacity and to address issues relevant to the work done in the project. International and sector relevant conferences, meetings, etc. will be attended to communicate the results of the project to the maximum number of persons.

PROTOCOL – External events

In case a partner is attending an external event that is of relevance to PerformFISH:

- Inform **AquaTT** (cliona@aquatt.ie) so that the event will be included in the project calendar informing other partners about the event attendance.
- Log any dissemination and exploitation activity in your own logs, and make sure you report on it at all reporting stages (internal and at official EC periodic reporting stages). A reporting template will be provided. For detail see section 6.

6 Links with other projects

Particular attention has been paid during the construction of the PerformFISH proposal to avoid duplication with current programs and to promote synergies with existing projects.

PerformFISH endeavours to establish effective links with other projects and initiatives that are relevant, to promote complementarity and to avoid overlap. PerformFISH will specifically interact with:

- The MedAid project: A framework of collaboration has been agreed between the projects funded under SFS-23-2016 to avoid duplication of effort, to maximise resources, and to search for synergies between the two consortia. Regular collaboration between the two projects will be pursued to increase the scope and validation of the project results, impacts and legacy.

7 Reporting on Dissemination Activities

PROTOCOL – EC Reporting on PerformFISH Dissemination Activities

As part of the EU requirements, all the publications and dissemination activities related to PerformFISH have to be reported. Partners should keep track of all their dissemination, publication and exploitation activities during project implementation as it is required for EC reporting.

From M18 onwards, a *"Dissemination Activities template* form" will be sent by the PerformFISH project manager to all partners and completed forms will be collected during internal and official EC project reporting. Once checked, the PerformFISH WP8 leader will upload the activities to the EC participant portal under the new "continuous reporting" section. **NOTE**: Every partner is responsible to ensuring that their scientific publications are uploaded onto the EC participant portal! Instructions how to do that can be found in the "EC participant portal guide" below.

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The WP8 dissemination leader (AquaTT) will keep a MASTER Excel file with information on all scientific publications and dissemination activities, including more detailed information on the latter in specific.

All partners who publish are responsible for recording their PerformFISH publications in the EC Participant Portal via their own institutional login. This should be done on an ongoing basis.

1. Dissemination Activities Reporting

The following information is required for **every** dissemination activity and will be part of the reporting forms provided to you:

- **Type of Activity (specify number of activities per type):** organisation of a conference or workshop, press release, popularised publication, exhibition, flyer, training, social media, website, communication campaign, participation in a conference, workshop or other event, video/film, brokerage event, pitch event, trade fair, participation in activities organised jointly with other H2020 projects, other
- **Type of Audience reached (specify the number of persons per type):** scientific community, industry, civil society, general public, policy makers, media, investors, customers, other
- **Total Funding amount** for dissemination and communication activities linked to PERFORMFISH spent until the time of reporting. The PerformFISH Project Coordinator (University of Thessaly) will extract this information from the financial reporting tables submitted by each partner.

Please remember that the WP8 leader (AquaTT) will upload the collected information in relation to dissemination activities (only) from all partners.

Publications Reporting (Partner Responsibility)

Every partner is responsible for ensuring that their scientific publications are uploaded onto the EC participant portal. Instructions how to do that can be found in the guide below.

EC participant portal guide:

1) Visit the website (https://ec.europa.eu/research/participants/portal/desktop/en/home.html) and log in (red square):

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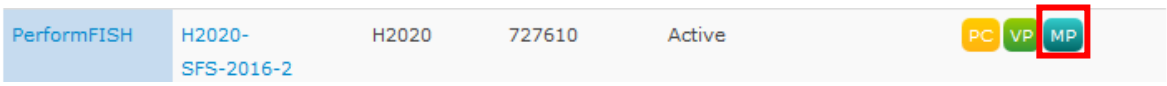
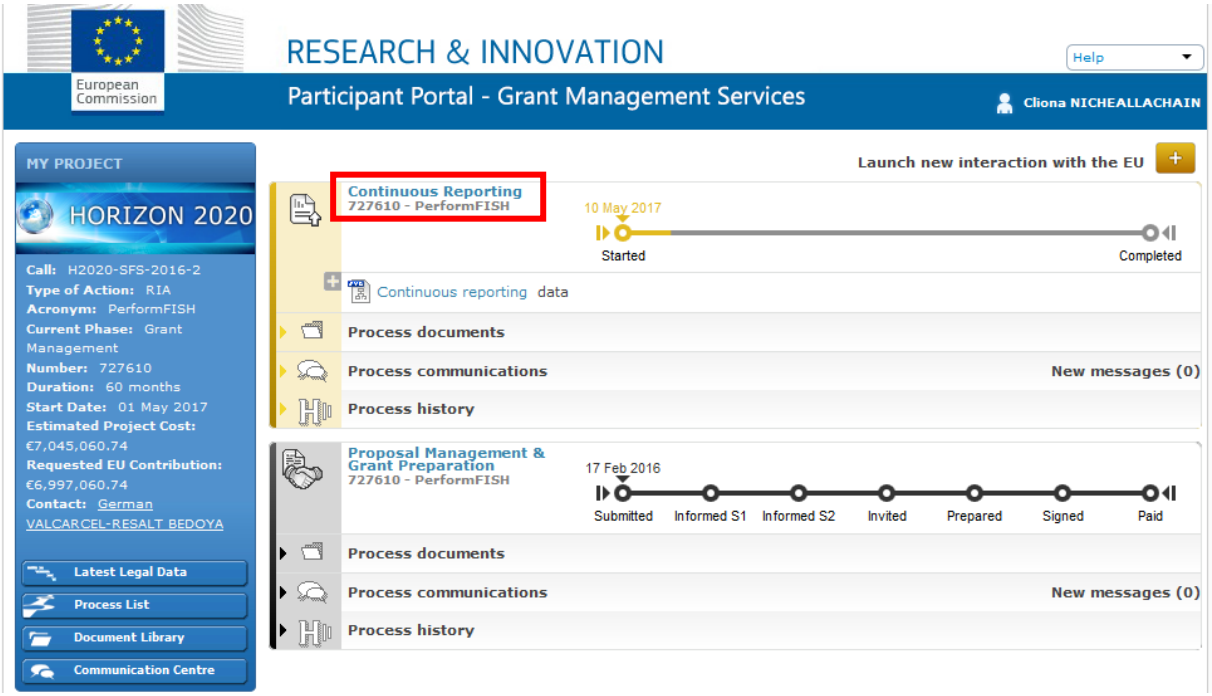
2) Go to “My projects” (red square) on the left and then select “PERFORMFISH”.

3) From the ‘Actions’ list on the right, select “MP” (= Manage Projects).



4) Click on “Continuous Reporting” (red square)



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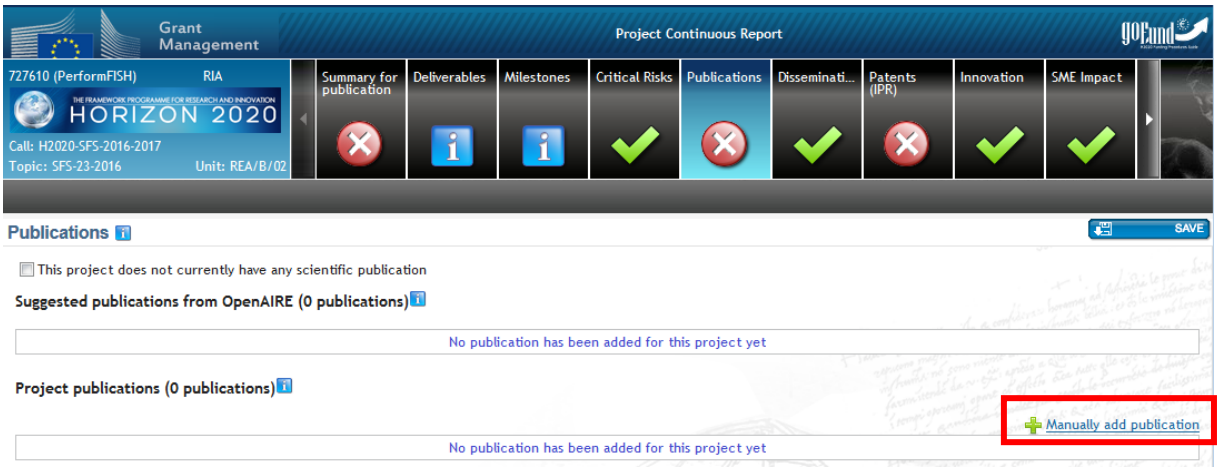
4) Select the “Publications” tab in the top menu and then click “Manually add publication” (red square)



Please provide a DOI for the publication (recommended, as that will automatically pre-fill most of the information) or fill-in manually the required information. **NOTE**: Fields that are not automatically pre-filled but are mandatory to complete are the questions on Open Access, whether it’s a peer-reviewed publication and if it’s a joint public/private publication, so please ensure you complete these as well.

Type of Publication: Article in Journal; Publication in a Conference Proceedings; Book/Monograph; Chapter in a Book; Thesis/Dissertation, Other*

8 DEP Validation and Recommendations

As part of the revision process of the Dissemination and Exploitation plan, each subsequent version of this deliverable (D8.4, D8.5, D8.6, D8.11) will be validated by the partnership. The current version will function as the operational manual and will be revised at regular intervals. Furthermore, the ITEC and ISAB will also review the document at each meeting and provide recommendations.

Date / version	Comments & Recommendations
V1 – 15.08.2017	DEP (D8.1) draft from proposal updated by AquaTT

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9 Annex I – Glossary

"Access rights" are the user rights (incl. Licenses) to foreground or background of project partners (http://www.iprhelpdesk.eu/)

"Application" refers to the process of converting scientific and technological advances into useable/marketable goods or services. Definition according to MarineTT (FP7 project number 244164).

"Background" is information and knowledge (including inventions, databases, etc.) held by the participants prior to their accession to the Grant Agreement, as well as any intellectual property rights which are needed for carrying out the project or for using foreground. Regarding intellectual property rights for which the application was filled before the accession of the participant to the Grant Agreement are included. The fact that participants are legal entities is important in this respect. If a specific department of a university or company is involved in a project, the background will be that of the whole university or company (subject to its relevance to the project), not just that of the specific department (unless the department constitutes a legal entity and is the participant). This is important as a participant may have to grant the other participants in the project access rights to the background of other departments under certain conditions (ftp://ftp.cordis.europa.eu/pub/fp7/docs/ipr_en.pdf).

"Deliverables" A deliverable is a physical output related to a specific objective of the project, e.g. a report, publication, newsletter, tool, website, or conference. A distinction can be made between external deliverables, which are created for customers and stakeholders, and internal deliverables, which are produced for the purpose of executing the project, and are usually only needed by the project team and the commissioning authority. Both types need to be specified and listed in the work package plan (http://ec.europa.eu/eahc/management/Fact_sheet_2010_03.html).

"Dissemination" is defined as a planned process of providing information on the quality, relevance and effectiveness of the results of programmes and initiatives to key actors. It occurs as and when the results of programmes and initiatives become available. This activity happens at both project and programme level, and involves the active participation of intermediary "relay" bodies (http://ec.europa.eu/education/programmes/llp/guide/valor/what_en.html).

"End User" is the individual(s) who will apply the Knowledge Output at the end of the Knowledge Output Pathway. The Knowledge Output may have undergone several revisions/adaptations through the value chain before reaching/being relevant to the needs of the end-user. Definition according to COLUMBUS (Horizon 2020 project: 652690).

"Exploitation" consists of mainstreaming and multiplication. Mainstreaming is the planned process of transferring the successful results of programmes and initiatives to appropriate decision-makers in regulated local, regional, national or European systems. Multiplication is the planned process of convincing individual end-users to adopt and/or apply the results of programmes and initiatives (http://ec.europa.eu/education/programmes/llp/guide/valor/index_en.html).

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"Eventual Impact" is the ultimate end benefit of the application of the Knowledge Output, and its influence/effect once taken up and applied by the target community. Definition according to COLUMBUS (Horizon 2020 project: 652690).

"Foreground" means the results, including information, materials and knowledge, generated in a given project, whether or not they can be protected. It includes intellectual property rights (IPR such as rights resulting from copyright protection, related rights, patent rights, plant variety rights of creators of topographies of semiconductor products), similar forms of protections (e.g. sui generis right for databases) and unprotected know-how (e.g. confidential material). Thus, foreground includes the tangible (e.g. prototypes, micro-organisms, source code and processed earth observation images) and intangible (IP) results of a project. Results generated outside a project (i.e. before, after or in parallel with a project) do not constitute foreground (ftp://ftp.cordis.europa.eu/pub/fp7/docs/ipr_en.pdf).

"Knowledge Management" comprises a range of practices used by organisations to identify, create, represent, and distribute knowledge for reuse, awareness and learning. Definition according to MarineTT (FP7 project number 244164).

"Knowledge Outputs" are units of knowledge or learning generated by or through research activity. They are not limited to de-novo or pioneering discoveries but may also include new methodologies/processes, adaptations, insights, alternative applications of prior know-how/ knowledge. Definition according to COLUMBUS (Horizon 2020 project: 652690).

"Knowledge Output Pathway" can be a single step or a series of steps required to carry a Knowledge Output to its Eventual Impact. Where there are a series of steps, it will include detailed mapping of the steps, the users involved at each step and their predicted role in the pathway to Eventual Impact. Definition according to COLUMBUS (Horizon 2020 project: 652690).

"Knowledge Transfer" is the term for the overall process of moving knowledge between knowledge sources to targeted potential users of knowledge. Knowledge Transfer consists of a range of activities which aim to capture, organise, assess and transmit knowledge, skills and competence from those who generate them to those who will utilise them. Definition according to COLUMBUS (Horizon 2020 project: 652690).

"Milestones" A milestone is a scheduled event signifying an important decision-making moment or the completion of a deliverable. Milestones can be used as project checkpoints to validate how the project is progressing, thus allowing a proper monitoring of the project implementation (http://ec.europa.eu/eahc/management/Fact_sheet_2010_03.html).

"Multipliers" are persons/organisations/institutions with the capability to magnify the effect/impact/application of the knowledge to the wider community. Definition according to MarineTT (FP7 project number 244164).

"Participant" is a legal entity taking part in an indirect action and having the rights and obligations defined in the Grant Agreement entered into with the European Commission (on behalf of the European Union) (ftp://ftp.cordis.europa.eu/pub/fp7/docs/ipr_en.pdf).

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"Target User" is the individual(s) who you have identified in your Knowledge Output Pathway to whom a Knowledge Fellow will transfer the Knowledge Output. Definition according to COLUMBUS (Horizon 2020 project: 652690).

"Value Chain" is a chain of activities for a firm operating in a specific industry. Products pass through all activities of the chain in order, and at each activity the product gains some value. As an example - steps in the value chain can include R&D, Design of Products/Services/Processes, Production, Marketing & Sales, Distribution and Customer Service. The chain of activities gives the products more added value than the sum of the independent activity's value. Definition according to MarineTT (FP7 project number 244164).

10 Annex II EC Rights and Obligations Related to Results

10.1 Ownership of results

Results are owned by the beneficiary that generates them. Two or more beneficiary's jointly own results if they have jointly generated them and it is not possible to establish the respective contribution of each beneficiary, or separate them for the purpose of applying for, obtaining or maintaining their protection (see GA Article 27). The joint owners must agree (in writing) on the allocation and terms of exercise of their joint ownership ('joint ownership agreement'), to ensure compliance with their obligations under the Grant Agreement.

If valuable results are not protected the Commission may, under certain circumstances, assume ownership of the results (for further details, please consult GA Article 26).

10.2 Protection of results

Each beneficiary has an obligation to protect its results. For any results that can reasonably be expected to be commercially or industrially exploited, beneficiaries must examine the possibility of protecting them and if possible, protect them even if this requires further research and development or private investment. If a beneficiary intends not to protect its results, to stop protecting them or not seek an extension of protection, the EU may under certain conditions (see GA Article 26.4) assume ownership to ensure their (continued) protection.

10.3 Exploitation of results

Each beneficiary has an obligation to exploit its results. Each beneficiary must – up to four years after the period set out in GA Article 3 - take measures aiming to ensure 'exploitation' of its results by: (a) using them in further research activities; (b) developing, creating or marketing a product or process; (c) creating and providing a service, or (d) using them in standardisation activities. For further details, please consult GA Article 28.

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If a beneficiary breaches any of its obligations under this Article, the grant may be reduced in accordance with Article 43.

10.4 Dissemination of results — Open access — Visibility of EU funding

Obligation to disseminate:

Each beneficiary must 'disseminate' their results as soon as possible by disclosing them to the public. However, no dissemination may take place before a decision is made regarding possible protection (see paragraph 2.2). Other participants may object if their legitimate interests in relation to their foreground or background could potentially suffer harm. The beneficiary that intends to disseminate must give the other beneficiaries at least 45 days' notice (together with sufficient information on the dissemination) (PerformFISH CA Article 8.3).

Open access:

For Horizon 2020, providing open access (free of charge, online access for any user) to publications in funded projects is an obligation for all grants. **Each beneficiary must ensure open access (OA) to all peer-reviewed scientific publications** relating to its results (GA Article 29.2).

In particular, beneficiaries must:

a) As soon as possible and at the latest on publication, deposit a machine-readable electronic copy of the published version or final peer-reviewed manuscript accepted for publication in a repository for scientific publications; Moreover, the beneficiary must aim to deposit at the same time the research data needed to validate the results presented in the deposited scientific publications.

b) Ensure open access to the deposited publication — via the repository —at the latest:
   - on publication, if an electronic version is available for free via the publisher, or
   - within six months of publication in any other case.

c) Ensure open access — via the repository — to the bibliographic metadata that identify the deposited publication

There are two main routes towards open access to publications:

A. Self-archiving (also referred to as 'green' open access) means that the published article or the final peer-reviewed manuscript is archived (deposited) by the author - or a representative - in an online repository before, alongside or after its publication. Repository software usually allows authors to delay access to the article ('embargo period')

B. Open access publishing (also referred to as 'gold' open access) means that an article is immediately provided in open access mode as published. In this model, the payment of publication costs is shifted away from readers paying via subscriptions.

For more information on open access, please consult the Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020 (http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf)

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Obligation and right to use the EU emblem:

Any dissemination of results **must display the EU emblem and include the following text**:

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Annex III– Knowledge Output Table

Short Title	Knowledge Output Description	Knowledge Type	Contact Information	Publically Available?	Link to Knowledge Output	Sectors & Subsectors	End User	Potential Application	IPR Protection	Status
Please provide a short and concise title to describe the Knowledge Output. Please only include generated Knowledge Outputs, not those that are expected. Note: Knowledge Outputs can be non-deliverables, milestones or 'grey knowledge'. Also, multiple Knowledge Outputs could exist within one deliverable, and should be separated.	Try to give a comprehensive description, making the Knowledge Output fully understandable to a non-expert. If relevant please provide detail of where the Knowledge Output differs from its equivalent, e.g. What are the key characteristics of the Knowledge Output? What research is it adding to and what is innovative about the Knowledge Output? (Max 500 characters).	DROPDOWN MENU - Please choose one option. If data or other is chosen please provide detail in Column P...	Please provide contact details of the most relevant person to provide further information, if required, on the Knowledge Output. Please indicate if the beneficiary/owner of the Knowledge Output differs from the contact person.		If you can provide a link to the Knowledge Output then please do so, e.g. digital object identifier (DOI), web address, download, research paper. If the Knowledge Output is not publicly available currently but will be in the future, please provide details. Also, if it is available but only upon request, please state this. If the Knowledge Output is not planned to be publicly available, please state "Not available for public".	DROPDOWN MENU - Choose as many options as required from the dropdown list. Pick those sectors that you think would benefit from the application of this Knowledge Output. For each sector chosen, please use a separate row.	DROPDOWN MENU - Choose as many options as required from the dropdown list. There can be more than one type of End User, e.g. Industry, Scientific Community, Policy Makers, Environmental Managers, Education, Other. For each End User chosen, please use a separate row.	Per identified End User, please identify possible applications of the Knowledge Output. For each application chosen, please use a separate row.	Please indicate whether IPR has been applied to this Knowledge Output (applied for a patent, copyright etc), or not. Please insert "n/a" if no IPR has been applied.	Please identify whether the Knowledge Output is finalised , is still being generated or whose status/future is unknown. Consider: • Is your knowledge conclusive enough that it provides sufficient evidence to make an impact on, or be applied by, an End User? • Is there a corroborating body of evidence, or are contradictory results, available? • Does your knowledge progress beyond the current state-of-the-art / evidence base? • Is more research or demonstration needed to validate the results? If the Knowledge Output is: -Technology based, please indicate TRL level (1-9) -Able to inform evidence-based policy, please indicate whether further validation/contextualisation would be required. -relevant to the scientific community, please indicate whether the Knowledge Output is conclusive or whether further detail would be required.

End User Description	Potential Impact	Project Exploitation	WP and submission date	Notes
Try to be as specific as possible, for example for 'Policy Makers' indicate the exact type and level also, e.g. European Commission – DG Research & Innovation / Directorate E (Health) / E1 Strategy.	Please provide details of the potential resulting impact this Knowledge Output could have if it were transferred to the End User.	In this field, indicate any dissemination / transfer activities that are planned for or have been undertaken to reach your identified End User. Please also indicate any impact that was achieved. Planned events are of particular interest because we need to ensure that there is no overlap between what the project intends to do and what the project can offer in terms of Knowledge Transfer activities. Examples of such activities are: publications, events and networking, collaborative research / researcher mobility, consultancy / training courses, licensing, new business / spin-offs, etc Please include web addresses, reference material, project reports so further investigation can be carried out.	Please enter the WP number and submission date of this KO, e.g. WPX_YYYY_MM	Any extra information which you deem relevant but is not included in other fields. This can include confidential information which shouldn't be made public but would be useful for analysis.

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