



AQUAculture infrastructures for EXCELlence  
in European fish research towards 2020 —  
AQUAEXCEL2020

## **D2.1 Industry and Research Advisory Panel (IRAP)** *EATiP, WP2 leader*



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## Executive Summary

### Objectives

**AQUAEXCEL<sup>2020</sup>** aims to offer services tailored to the needs of the European aquaculture community and support and conduct world-class aquaculture research.

Within the structure of the project, the AQUAEXCEL<sup>2020</sup> Industry & Research Advisory Panel (IRAP) is an interactive advisory body which aims to contribute both to upstream guidance (e.g. industry needs and recommendations) as well as to downstream impact/dissemination. IRAP aims to maximise the possibilities for new knowledge to be translated into innovation, adapted to and adopted by the aquaculture industry, and so substantially increase the possibilities for success of the AQUAEXCEL<sup>2020</sup> project, including its TNA programme.

**AQUAEXCEL<sup>2020</sup>** aims to offer services tailored to the needs of the European aquaculture community and support and conduct world-class aquaculture research. Similar to its forerunner project AQUAEXCEL (2011-2015), one of the key aspects of **AQUAEXCEL<sup>2020</sup>** is to provide subsidised access to its top-class aquaculture facilities as well as numerous highly pertinent services for researchers from academia and industry. **AQUAEXCEL<sup>2020</sup>** will also provide training for transnational access users, aquaculture researchers, technical staff and industry stakeholders.

The establishment of the IRAP – Industry & Research Advisory Panel, composed of people from the Industry and people from Research (WP leaders in AQUAEXCEL<sup>2020</sup>) aims to strengthen the connections between result generators and result end-users, promote TNA research on industry-relevant topics and facilitate transfer of knowledge generated within the project to relevant industry partners.

Deliverable 2.1 (Industry and Research Advisory Panel (IRAP) provides:

- A list of the members of the IRAP, composed of aquaculture industry and research stakeholders, drawn from the **AQUAEXCEL<sup>2020</sup>** consortium, the European Aquaculture Technology & Innovation Platform (EATiP) membership, as well as external experts;
- Terms of Reference for the IRAP work, including an Evaluator Guide.

### Rationale:

The **AQUAEXCEL<sup>2020</sup>** IRAP will act as a pro-active interface for the project involving the research community and the aquaculture industry. This will strengthen industry-research relations and develop research that meets industry needs for innovation.

**AQUAEXCEL<sup>2020</sup>** is building upon its successful predecessor FP7-AQUAEXCEL which has produced many highly interesting OUTPUTS. These OUTPUTS have been collected, but have not yet been properly evaluated, nor transferred. These FP7 OUTPUTS, as well as the OUTPUTS to be received from **AQUAEXCEL<sup>2020</sup>** will be collected and presented to the IRAP in the form of project catalogues. Following a transparent procedure, the IRAP will objectively analyse the OUTPUTS and evaluate and score potential level of impact on identified industry end users. The IRAP will then provide a summary assessment for each OUTPUT (project catalogue).

From both FP7-AQUAEXCEL and **AQUAEXCEL<sup>2020</sup>** OUTPUTS, an estimated number of about 30 high potential OUTPUTS (project catalogues) will be selected for showcasing at unique industry-research brokerage events, of which the first one will be Aquaculture Europe 2017 in Croatia.

### Main Results:

The IRAP was set up and currently consists of seven industry experts from around Europe, 9 **AQUAEXCEL<sup>2020</sup>** work package leaders and 6 observers. All industry members have signed

a Non-Disclosure Agreement and all members have approved the Terms of References. The industry members agreed to the developed Evaluator Guide and the general OUTPUT evaluation process. The first IRAP meeting was held in Heraklion, Crete (GR), on 11<sup>th</sup> October 2016.

**Authors/Teams involved:**

Courtney Hough and Catherine Pons (EATiP), Marieke Reuver and Claudia Junge (AquaTT), Alexandra Neyts and Elin Kjørsvik (NTNU). With the support of all WP leaders.

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## Set up an Industry and Research Advisory Panel (IRAP)

### 1.1. Selection of IRAP members

The **AQUAEXCEL<sup>2020</sup>** IRAP will act as a pro-active interface for the project involving the research community and the aquaculture industry. This will strengthen industry-research relations and develop research that meets industry needs for innovation.

In order to be granted access to the Research Infrastructures (RIs), the proposed aquaculture experimental projects (Trans-National Access Programme (TNA)) should be compliant with the EATiP Strategic Research & Innovation Agenda (SRIA).

In order to cover the expertise required for the work and the whole aquaculture value chain, the IRAP member invitation was extended to members of the EATiP (through Thematic Area interest) and other aquaculture industry networks such as the Federation of European Aquaculture Producers (FEAP) and the European Molluscs Producers Association (EMPA), as well as to independent experts involved in the aquaculture sector.

The 8 WP leaders of the **AQUAEXCEL<sup>2020</sup>** project were automatically part of the IRAP. The list of IRAP members is not fully completed and will be evolving during the project. List to date (Annex 2).

#### 1.1.1. Industry experts

A maximum of 15 industry experts will be selected on basis of their CV, to ensure that all aquaculture sector thematic areas are covered.

So far the IRAP is composed of: Mr. Arnault Chaperon, Mr. Ole Christensen, Mr. Kjell Maroni, Mr. Doug Mc Leod, Mr. Hamish Rodger, Mr. Arne Sorvig, Mr. Fernando Torrent, see table below and CV attached (Annex 3).

<u>Name</u>	<u>Expertise</u>	<u>Position/Role</u>	<u>Country</u>
Arnault Chaperon	CAVIAR Pirinea Sturgeon/Trout/Bass&Bream/Salmon	EATiP Vice-Chairman	FR/SP
Ole Christensen	BIOMAR Fish Feed (activities and sales)	EATiP TA4 Chairman	DK
Kjell Maroni	FHF Research coordination (Environ./Water)	EATiP member	NO
Doug Mc Leod	BRITISH TROUT ASSOCIATION Trout/Molluscs/Education	FEAP member and ex-Chairman of EMPA	UK
Hamish Rodger	VET-AQUA Fish Health	EATiP TA7 Chairman	IRL
Arne Sorvig	BOCUSE D'OR Gastronomy/Marketing	EATiP TA1 Chairman	NO
Fernando Torrent	UNIVERSITY OF MADRID Hatcheries/Turbot/Bass&Bream/ Besugo/Seriola/Salmon + Research	EATiP TA5 Chairman	SP

Each selected expert has signed a non-disclosure agreement in order to keep any given information concerning the content and development of the project confidential.

### 1.1.2. WP leaders

The 9 WP leaders of the **AQUAEXCEL<sup>2020</sup>** project are automatically part of the IRAP.

John Bostock	University of Stirling	WP1 leader	UK
Courtney Hough	EATiP	WP2 leader	BE
Adelino Canario	University of Algarve	WP3 leader	PT
Marieke Reuver	AquaTT	WP4 leader	IE
Gunnar Senneset	SINTEF	WP5 leader	NO
Asa Espmark	NOFIMA	WP6 leader	NO
Edwige Quillet	INRA	WP7 leader	FR
Jaime Perez Sanchez	CSIC	WP8 leader	ES
Bénédicte Ferreira	INRA	WP9 leader	FR

Some observers/WP2 partners are also participating in IRAP meetings.

Marc Vandeputte	INRA	Coordinator	FR
Alexandra Neyts	NTNU	NTNU	NO
Elin Kjorsvik	NTNU	NTNU	NO
Catherine Pons	EATiP	WP2	BE
Claudia Junge	AquaTT	WP4	IE
Ronan Pendu	INRA	WP9	FR

## 1.2. Role of the IRAP

The IRAP is expected to be an interactive advisory body and contribute both to upstream guidance (e.g. industry need recommendations) as well as to downstream impact/dissemination as it will aim at maximizing the possibilities for new knowledge to be translated into innovation, and so substantially increase the possibilities for success.

The key roles of the IRAP are to:

- Evaluate OUTPUTS with possible impact on Industry End Users and Select OUTPUTs with high impact on industry.
- Provide recommendations on current industry needs & select focus areas for future TNA calls
- Revise knowledge management methodology and catalogue selection if needed
- Assist in the development of feedback templates for the Industry-research brokerage events, to assure monitoring of brokerage, contacts, interest and uptake.

## 1.3. Methodology

### 1.3.1. Ensuring exploitation of AQUAEXCEL/AQUAEXCEL<sup>2020</sup> results

**AQUAEXCEL<sup>2020</sup>** is building upon its successful predecessor AQUAEXCEL which has produced many highly interesting OUTPUTS. These OUTPUTS have been collected, but have not yet been properly evaluated, nor transferred. Since we believe there are some high potential and interesting OUTPUTS from AQUAEXCEL, and **AQUAEXCEL<sup>2020</sup>** will not have yet produced OUTPUTS in the first year of the project, we will present the FP7-AQUAEXCEL OUTPUTS to the IRAP firstly, to evaluate and score potential level of impact on identified industry end users [estimate of ~50 OUTPUTS to be evaluated]

From year 1 in **AQUAEXCEL<sup>2020</sup>** onwards, **AQUAEXCEL<sup>2020</sup>** OUTPUTS will be collected and presented to the IRAP in the form of project catalogues (*Graph 1: Capture Template*). Following a transparent procedure (*Graph 2: Output Evaluation*), the IRAP will analyse the OUTPUTS and evaluate and score potential level of impact on identified industry end users [estimate of ~200 OUTPUTS (of which 170 TNA projects) to be evaluated]. An Evaluator Guide has been developed to help the experts in their analysis and scoring of OUTPUTS. Evaluator Guide (Annex 4). The IRAP will provide a summary assessment for each OUTPUT (project catalogue).

From both FP7-AQUAEXCEL and **AQUAEXCEL<sup>2020</sup>** OUTPUTS, an estimated number of about 30 high potential OUTPUTS (project catalogues) will be selected for showcasing at unique industry-research brokerage events, which will be organised by **AQUAEXCEL<sup>2020</sup>**. OUTPUT owners will be invited to these events and provided with additional support and resources to facilitate the transfer of their OUTPUT.

*Graph 1: OUTPUT Capture Template*


AQUAEXCEL<sup>2020</sup> Project Catalogue

Ref No.	Short Title	OUTPUT Description	OUTPUT Type	OUTPUT Theme	EATIP Thematic Areas	EATIP goals	Contact Information	Publicly Available?	Link to OUTPUT
	Please provide a short and concise title to describe the main OUTPUTS of your research  For each separate OUTPUT, please complete a new row.	Try to give a comprehensive description, making your OUTPUT fully understandable to a non-expert.  Please provide details such as what are the key characteristics of the OUTPUT? What is innovative about it? (Max 500 characters).	This should describe the format in which the knowledge is presented.  DROPDOWN MENU - Please choose one option.  If 'data' or 'other' is chosen please provide detail in Column S (notes).	DROPDOWN MENU - Choose one or more themes your OUTPUT falls under.  For each theme chosen, please use a separate row.	DROPDOWN MENU - To which of the thematic areas of the European Aquaculture Technology and Innovation Platform (EATIP) does your OUTPUT contribute to?  (please see under definitions, as defined in thematic SRIA)  For each thematic area chosen, please use a separate row.	DROPDOWN MENU - To which of the goals within the thematic areas identified in column E does your OUTPUT contribute to?  Choose between: G1, G2, G3, or G4. (please see under definitions, as defined in thematic SRIA)  For each goal chosen, please use a separate row.	Please provide contact details of the most relevant person to provide further information, if required, on this OUTPUT.  Please indicate if the beneficiary/owner of the OUTPUT differs from the contact person.  <b>*extra information regarding the owner &amp; other beneficiaries is in column T</b>	Yes or No	If you can provide a link to the OUTPUT then please do so, e.g. digital object identifier (DOI), web address, download, research paper.  If the 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 OUTPUT is not planned to be publicly available, please state "Not publicly available".


Sectors & Subsectors	End User	End User Description	Potential Application	IPR Protection	Status
DROPDOWN MENU - Please choose as many options as required.  Pick those sectors that you think would benefit from the application of this OUTPUT.  For each sector chosen, please use a separate row.	DROPDOWN MENU - Please choose as many options as required.  There can be more than one type of End User, e.g. Industry, Scientific Community, Policy Makers, Environmental Managers, Education, Other. If Other is chosen, please try to specify  For each End User chosen, please use a separate row.	Refers back to column K (End User). Here we would like more detailed information on each End User you have previously identified.  Try to be as specific as possible, for example for 'Industry stakeholder' indicate the exact type, like 'Aquaculture farming industry' or 'Aquaculture equipment industry'  'Policy Makers' indicate the exact type and level also, e.g. European Commission – DG Research & Innovation / Directorate E (Health) / E1 Strategy.	Per identified End User (previous column), please identify possible applications of the OUTPUT.  For each application identified, please use a separate row, linking it with the relevant End User in the previous column.  Please also give an indication of timescale to application (short, medium, long-term).  Do you think it could be commercially exploited?	Please provide details/numbers if IPR has been applied to this OUTPUT (applied for a patent, copyright etc) or "no" if not applicable.  Please insert "unsure" if IPR has not been considered yet.	Please identify whether the OUTPUT is finalised, is still being generated or whose status/future is unknown. Consider: <ul style="list-style-type: none"> <li>Is your OUTPUT conclusive enough; in its current state, will it already make an impact on, or can it already be applied by the End User(s) you identified?</li> <li>Is there a justifying body of evidence, or are contradictory results available?</li> <li>Does your OUTPUT progress beyond the current state-of-the-art / evidence base?</li> <li>Is more research or demonstration needed to validate your OUTPUT?</li> </ul> If the OUTPUT is: -Technology based, then please indicate TRL level (1-9) -Able to inform evidence-based policy, then please indicate whether further validation/contextualisation would be required. -relevant to the scientific community, please indicate whether the OUTPUT is conclusive or whether further detail would be required.

Potential Impact	Project Exploitation	Possible exploitation partner(s)	Owner & other Beneficiary(s) involved	Submission Date	Notes
<p>Please provide details of the potential resulting impact this OUTPUT could have if it were transferred to the End User(s).</p> <p>Examples are improved productivity, more environmental-friendly, better nutritional alternatives, etc.</p>	<p>In this field, indicate any dissemination / transfer activities that are planned for or have been undertaken to reach your identified End User.</p> <p>Please also indicate any impact that was achieved.</p> <p>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.</p> <p>Examples of such activities are: publications, events and networking, collaborative research / researcher mobility, consultancy / training courses, licensing, new business / spin-offs, etc</p>	<p>Who could exploit the Knowledge? Who could be a possible multiplier with a mandate to help transfer the knowledge to a particular group of end users. Possible examples are: spin-offs, investors, innovation support agencies, sectoral development bodies, other (public) research organisations, etc.</p>	<p>Give names and contact details if possible</p> <p>Owner: foreground developed through the project is owned by the partners who have directly contributed to its creation.</p>	<p>Please enter the submission date of this OUTPUT, in dd/mm/yyyy.</p>	<p>Any extra information which you deem relevant but is not included in other fields.</p>

Graph 2: OUTPUT Evaluation => industry-related



## Evaluations




AQUAculture infrastructures for EXCELlence in European fish research towards 2020

### Evaluator Guide – Aquaculture OUTPUT Transfer

Thank you for being a part of the AQUAEXCEL<sup>2020</sup> Industry and Research Advisory Panel (IRAP) and for agreeing to act as a reviewer for the TransNational Access (TNA) and Project OUTPUTS. Please treat all of the materials provided to you as confidential, including your own review.

AQUAEXCEL<sup>2020</sup> aims to collect OUTPUTS in regular intervals throughout the project’s lifetime, from both the core project work itself, as well as from its short research projects carried out by external parties called TransNational Access (TNA) projects. The eventual aim is to transfer any OUTPUT that you have identified as having potential high impact on industry, to the relevant users.

AQUAEXCEL<sup>2020</sup> is building upon its successful predecessor AQUAEXCEL which has produced many highly interesting OUTPUTS. These OUTPUTS have been collected, but have not yet been properly evaluated, nor transferred. Since we believe there are some high potential and interesting OUTPUTS from AQUAEXCEL, and AQUAEXCEL<sup>2020</sup> has not yet produced OUTPUTS at this stage, we have decided to present the AQUAEXCEL OUTPUTS to the IRAP firstly.




Scoring

High = 3

Medium = 2

Low = 1

Unsure = 0

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Impact of OUTPUT on Industry End Users (Score as 1 = Low, 2 = Medium, 3 = High, 0 = don't know)					OUTPUTS				
SCORE	REASONING	TRANSFER ADVICE	OTHER END USERS?	COMMENTS	Short Title	OUTPUT Description	EATIP Thematic Areas	End User	Potential Application
See Introduction on suggested aspects to take into account	For any OUTPUT that you have scored 3, what is your reasoning for the high score?	For any OUTPUT that you have scored 3, could you give Transfer Advice (best way to reach the identified End Users)?	Have you identified other End Users besides Industry?	Do you have any other comments?	<b>Short and concise title</b> describing the OUTPUT	<b>Comprehensive description</b> of the OUTPUT, understandable to a non-expert.  Details on key characteristics of the OUTPUT are described.	Indication of the European Aquaculture Technology and Innovation Platform (EATIP) <b>Thematic Area(s)</b> that the OUTPUT contributes to.  (for details on the different EATIP Thematic Areas, please see under definitions, as defined in thematic SRIA)	Brief description of the <b>End User(s)</b> that could possibly use and apply the OUTPUT  There can be more than one type of End User, e.g. Industry, Scientific Community, Policy Makers, Environmental Managers, Education, Others.  <b>IRAP members</b> , if you feel you could add to this, or you don't agree with the suggestions, please edit. We also appreciate suggestions on further details of relevant industry type, e.g. equipment, feed, etc. Clearly indicate your edits by using a red font colour	Brief indication of the <b>possible applications of the OUTPUT</b> , depending on the different End Users  Where possible, an indication of timescale to application (short, medium, long-term) has been provided, as well as thoughts about possibly commercial exploitation.  <b>IRAP members</b> , if you feel you could add to this, or you don't agree with the suggestions, please edit. Clearly indicate your edits by using a red font colour

### 1.3.2. Knowledge Transfer Plan (KTP)

The owners of the OUTPUTS prioritized by the IRAP will be asked to:

- continue the research if need identified,
- present their results at selected Brokerage Events for further potential exploitation.

Project Catalogues will be developed by AquaTT and disseminated by all project partners.



## Design of TNA and Project Catalogues



## 1.4. Terms of Reference

Terms of Reference (ToR) were developed and adopted by the IRAP - at its first meeting in Heraklion (Crete) on the 11<sup>th</sup> October 2016 - for transparent work and assessment procedures.

The ToR refers to the organisation and management of regular IRAP meetings in conjunction with **AQUAEXCEL<sup>2020</sup>** ExCom and General Assembly and to the role of the experts and their commitments.

ToR (Annex 5).

## 1.5. Conclusion

Following its establishment, the IRAP is now acting as a pro-active interface for the project, involving on one side the research community with the WP leaders and the coordinator and on the other side the aquaculture industry with the high level aquaculture experts. The group of experts will evolve along the project so as to cover more expertise required for the work.

Following a transparent procedure, the IRAP has now started to analyse projects' OUTPUTS and evaluate and score potential level of impact on identified industry end users.

During its first meeting (MS3), the IRAP has achieved an assessment of the FP7-AQUAEXCEL OUTPUTS and identified potential high impact OUTPUTS to be transferred at the first brokerage event.

The next OUTPUTS evaluation session has been planned for April 2017.

The panel has also identified other ways to enhance cooperation and connect OUTPUT generators with OUTPUT end-users. The transfer of knowledge is anticipated through industry meetings: FEAP meetings, AquaNOR aquaculture exhibition, Aquaculture Europe 2017, AQUAMED, Aquaculture Advisory Council, other European level committees, Aquaculture Europe 201 but also at national level through the National Mirror Platforms.

With respect to the recommendations for focus areas for TNA calls, they will be prepared once the EATiP SRIA is fully revised (anticipated for the end of 2016).

The first year of IRAP shows that it is already contributing to **AQUAEXCEL<sup>2020</sup>**'s development and implementation, providing guidance on industry needs and anticipated impacts.

With the mechanism in place and the future events to take place, the IRAP hopes to contribute in maximizing the possibilities for new knowledge to be translated into innovation.

## Glossary

AQUAEXCEL<sup>2020</sup>: AQUAculture Infrastructures for EXCELlence in European Fish Research towards 2020

EATiP: European Aquaculture Technology & Innovation Platform

EMPA: European Molluscs Producers Association

FEAP: Federation of European Aquaculture Producers

KT: Knowledge Transfer

KTM: Knowledge Transfer Methodology

KTP: Knowledge Transfer Plan

MS: Milestone

RIs: Research Infrastructures

SRIA: Strategic Research & Innovation Agenda

TNA: TransNational Access

## Document information

<b>EU Project N°</b>	652831	<b>Acronym</b>	AQUAEXCEL <sup>2020</sup>
<b>Full Title</b>	AQUAculture Infrastructures for EXCELlence in European Fish Research towards 2020		
<b>Project website</b>	<a href="http://www.aquaexcel.eu">www.aquaexcel.eu</a>		

<b>Deliverable</b>	<b>N°</b>	D2.1	<b>Title</b>	Industry and Research Advisory Panel (IRAP)
<b>Work Package</b>	<b>N°</b>	2	<b>Title</b>	Fostering Innovation from RIs

<b>Date of delivery</b>	<b>Contractual</b>	30/04/2016 (Month 6)	<b>Actual</b>	31/10/2016 (Month 12)
<b>Dissemination level</b>	X	<b>PU Public, fully open, e.g. web</b>		
		<b>CO Confidential, restricted under conditions set out in Model Grant Agreement</b>		
		<b>CI Classified, information as referred to in Commission Decision 2001/844/EC.</b>		

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31/10/2016	0	Catherine Pons	1 <sup>st</sup> first version
16/11/2016	1	Claudia Junge/Marieke Reuver	2 <sup>nd</sup> version
23/11/2016	1	Courtney Hough	Final

## Annex 1: Check list

Deliverable Check list (to be checked by the “Deliverable leader”)

	Check list	Comments
<b>BEFORE</b>	I have checked the due date and have planned completion in due time	<i>Please inform Management Team of any foreseen delays</i>
	The title corresponds to the title in the DOW	<i>If not please inform the Management Team with justification</i>
	The dissemination level corresponds to that indicated in the DOW	
	The contributors (authors) correspond to those indicated in the DOW	
	The Table of Contents has been validated with the Activity Leader	<i>Please validate the Table of Content with your Activity Leader before drafting the deliverable</i>
	I am using the AQUAEXCEL <sup>2020</sup> deliverable template (title page, styles etc)	<i>Available in “Useful Documents” on the collaborative workspace</i>
<b>The draft is ready</b>		
<b>AFTER</b>	I have written a good summary at the beginning of the Deliverable	<i>A 1-2 pages maximum summary is mandatory (not formal but really informative on the content of the Deliverable)</i>
	The deliverable has been reviewed by all contributors (authors)	<i>Make sure all contributors have reviewed and approved the final version of the deliverable. You should leave sufficient time for this validation.</i>
	I have done a spell check and had the English verified	
	I have sent the final version to the WP Leader, to the 2 <sup>nd</sup> Reviewer and to the Project coordinator (cc to the project manager) for approval	<i>Send the final draft to your WPLLeader, the 2<sup>nd</sup> Reviewer and the coordinator with cc to the project manager on the 1<sup>st</sup> day of the due month and leave 2 weeks for feedback. Inform the reviewers of the changes (if any) you have made to address their comments. Once validated by the 2 reviewers and the coordinator, send the final version to the Project Manager who will then submit it to the EC.</i>

## Annex 2: Industry Research Advisory Panel (IRAP) Members

	<u>Name</u>	<u>Expertise</u>	<u>Short CV</u>	<u>Position/Role</u>	<u>Country</u>
Industry Experts	Arnault Chaperon	Sturgeon/Trout/Bass&Bream/Salmon	Production since 1982 : all species; FEAP Chairman since 2010	EATiP Vice-Chairman	FR/SP
	Ole Christensen	Fish Feed (activities and sales)	Vice President Continental Europe at Biomar in Continental Europe, DK, FR, GR, SP, TK, Baltic, Russia, Med, Africa	EATiP TA4 Chairman	DK
	Kjell Maroni	Research coordination (Environ./Water)	Director R&D at FHF Norway, coordinating research activities relating to aquaculture (environment; water quality; optimizing production)	EATiP member	NO
	Doug Mc Leod	Trout/Molluscs/Education	Representative and technical support to the British Trout Association; Executive Chairman of the Ass Scottish Shellfish Growers and President of the Eur Mollusc Prod Assoc; links wisht China, vocational training	FEAP member	UK
	Hamish Rodger	Fish Health	Vet; Global Managing Director Fish Vet Group (veterinary consultancy and diagnostic technologies)	EATiP TA7 Chairman	IRL
	Arne Sorvig	Gastronomy/Marketing	Managing Director Bocuse d'Or; 3 years Director Strategic Marketing at Marine Harvest ; 6 years Executive Courtnry Director at Norwegian Seafood Export Council	EATiP TA1 Chairman	NO
	Fernando Torrent	Hatcheries/Turbot/Bass&Bream/Besugo/Seriola/Salmon + Research	Production since 1985; now developing cooperation projects at Madrid Polytechnic University (Aquaculture in Peru/Colombia)	EATiP TA5 Chairman	SP

AE2020 WP leaders	John Bostock	University of Stirling		WP1 leader	UK
	Courtney Hough	EATiP		WP2 leader	BE
	Adelino Canario	University of Algarve		WP3 leader	PT
	Marieke Reuver	AquaTT		WP4 leader	IRL
	Gunnar Senneset	SINTEF		WP5 leader	NO
	Asa Espmark	NOFIMA		WP6 leader	NO
	Edwige Quillet	INRA		WP7 leader	FR
	Jaume Perez Sanchez	CSIC		WP8 leader	ES
	Bénédicte Ferreira	INRA		WP9 leader	FR
Observ. IRAP	Marc Vandeputte	INRA		Coordinator	FR
	Alexandra Neyts	NTNU		NTNU	NO
	Elin Kjorsvik	NTNU		NTNU	NO
	Catherine Pons	EATiP		WP2	BE
	Claudia Junge	AquaTT		WP4	IE
	Ronan Pendu	INRA		WP9	FR

## **Annex 4: Evaluator Guide**





AQUAculture Infrastructures for EXCELlence in European fish research towards 2020

## Evaluator Guide – Aquaculture OUTPUT Transfer

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Thank you for being a part of the AQUAEXCEL<sup>2020</sup> Industry and Research Advisory Panel (IRAP) and for agreeing to act as a reviewer for the TransNational Access (TNA) and Project OUTPUTs. Please treat all of the materials provided to you as confidential, including your own review.

AQUAEXCEL<sup>2020</sup> aims to collect OUTPUTs in regular intervals throughout the project's lifetime, from both the core project work itself, as well as from its short research projects carried out by external parties called TransNational Access (TNA) projects. The eventual aim is to transfer any OUTPUT that you have identified as having potential high impact on industry, to the relevant users.

AQUAEXCEL<sup>2020</sup> is building upon its successful predecessor AQUAEXCEL which has produced many highly interesting OUTPUTs. These OUTPUTs have been collected, but have not yet been properly evaluated, nor transferred. Since we believe there are some high potential and interesting OUTPUTs from AQUAEXCEL, and AQUAEXCEL<sup>2020</sup> has not yet produced OUTPUTs at this stage, we have decided to present the AQUAEXCEL OUTPUTs to the IRAP firstly.

Note that we present to you all OUTPUTs that have been produced, including non-industry relevant ones. We will ask you to focus specifically on the industry-relevant ones, but we welcome feedback on non-industry relevant OUTPUTs too. Note also that we may have misjudged end-users and possible applications, and you may want to give feedback on an OUTPUT that currently is not identified as industry-relevant, but is in fact industry-relevant in your opinion.

### IRAP ACTIVITIES:

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- Review of collected OUTPUTs (see attached Excel document: "AE2020\_Project\_Catalogue\_evaluation\_AE\_OUTPUTs\_Sep2016") to ensure a good understanding of each OUTPUT, in specific industry-relevant ones. Please contact [claudia@aquatt.ie](mailto:claudia@aquatt.ie) if you have any questions on any of the OUTPUTs
- We invite you to provide further information if you feel it missing. Most importantly, we appreciate further suggestions on possible end users and applications of OUTPUTs, in specific on OUTPUTs considered having a high potential impact on industry.
- Based on your experience and expectations, can you score each industry-relevant OUTPUT according to its potential level of impact on the identified industry end users as follows:
  - o **Low (1)** = The transfer of this OUTPUT would have little or no impact; or may lead to localised uptake by a narrow, peer community.
  - o **Medium (2)** = The transfer of this OUTPUT may result in some impact in a specific sector or region. Notable adaptation of behaviour or processes is likely to be observed as a result of the transfer activity.
  - o **High (3)** = OUTPUT is expected to have significant effect on, change or benefit the end user, beyond academia. The reach of the transferred OUTPUT may be national or global.

We also ask you to provide a reasoning if you score an OUTPUT 3, as well as Transfer Advice. If you think the OUTPUT is highly relevant for other end users besides industry, please give advice. See below for the aspects to take into account when scoring.

- To help you scoring each industry-relevant OUTPUT, you can take the following aspects into consideration (explain them in the Reasoning field (column C)):
  - o Do you think the OUTPUT is ready to be applied in industry? If not, what further steps should be taken to make it ready? You can indicate the Technology Readiness Level (TRL) if you have an insight into this.
  - o Do you think this OUTPUT would be profitable / improve profit margins, when applied in industry?
  - o Do you think significant investment (time and / or money) is required still for the OUTPUT to be applied and reach its impact? Can you give an indication?
  - o Is the OUTPUT in line with EATiP SRIA?
  - o According to you, is the OUTPUT new and innovative and responds to an identified need by industry?
- Please provide further information in the 'comments' column

#### **NEXT STEPS**

Once prioritised, Knowledge Transfer Plans (KTPs) will be developed for those OUTPUTS identified as having the most potential impact. Further details will be given at a later stage.

Please feel free to contact Claudia Junge ([claudia@aquatt.ie](mailto:claudia@aquatt.ie)) for further information. Please cc Catherine Pons ([secretariat@eatip.eu](mailto:secretariat@eatip.eu)) and Marieke Reuver ([marieke@aquatt.ie](mailto:marieke@aquatt.ie)) in all correspondence.

## **Annex 5: Terms of Reference**

# Terms of Reference

## AQUAEXCEL<sup>2020</sup> – IRAP / Industry & Research Advisory Panel

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### 1. Overview of AQUAEXCEL<sup>2020</sup>

AQUAEXCEL<sup>2020</sup> is a European Union funded research infrastructure project (under the Horizon2020 Funding Programme), aiming to further support the sustainable growth of the aquaculture sector in Europe. The project comprises a large group of leading European aquaculture research facilities that work towards advanced integration and standardisation of tools for aquaculture research.

AQUAEXCEL<sup>2020</sup> aims to offer services tailored to the needs of the European aquaculture community and support and conduct world-class aquaculture research. One of the key aspects of AQUAEXCEL<sup>2020</sup> is to provide subsidised access to its top-class aquaculture facilities (through the TransNational Access (TNA) programme) as well as offering numerous highly pertinent services for aquaculture researchers from both academia and industry, with a special focus on young researchers and SMEs. AQUAEXCEL<sup>2020</sup> also provides training for TNA users, aquaculture researchers, technical staff and industry stakeholders.

It is expected that AQUAEXCEL<sup>2020</sup> will produce numerous **outputs that will be relevant for the European aquaculture industry in particular**. The project has set up an OUTPUT collection system, to collect and analyse all research outputs, both from the project itself, as well as from the additional research projects carried out by external researchers in the TNA programme. In addition, as AQUAEXCEL<sup>2020</sup> is building upon its predecessor AQUAEXCEL which has produced many highly interesting OUTPUTs which are not evaluated yet, we aim to assess these as well for relevance to the European aquaculture industry.

These so-called OUTPUTs will be presented to the Industry & Research Advisory Panel (IRAP). The eventual aim is to transfer any OUTPUTs that IRAP members have identified as having potential high impact on industry, to relevant users. AQUAEXCEL<sup>2020</sup> aims to really make an impact on the European aquaculture industry, and the IRAP will play a key role in doing so.

### 2. Industry & Research Advisory Panel (IRAP) in AQUAEXCEL<sup>2020</sup>

#### 2a. Role/Purpose

The IRAP is expected to be an interactive advisory body and contribute both to upstream guidance (e.g. industry need recommendations) as well as to downstream impact/dissemination as it will aim at maximizing the possibilities for new knowledge to be translated into innovation, and so substantially increase the possibilities for success.

The AQUAEXCEL<sup>2020</sup> IRAP will act as a pro-active interface for the project involving the research community and the aquaculture industry. This will strengthen industry-research relations and develop research that meets industry needs for innovation.

**AQUAEXCEL<sup>2020</sup>** aims to prioritise and carry out research projects (both being part of the project itself, as well as the TNA research projects) that are in line with identified needs of the European aquaculture industry. A key role of the **AQUAEXCEL<sup>2020</sup>** Industry & Research Advisory Panel (IRAP) is to provide recommendations on current industry needs (EATiP Strategic Research and Innovation Agenda) so the project can focus on research projects addressing these.

**Specifically:**

- **AQUAEXCEL<sup>2020</sup>** is building upon its successful predecessor AQUAEXCEL which has produced many highly interesting OUTPUTS. These OUTPUTS have been collected, but have not yet been properly evaluated, nor transferred. Since we believe there are some high potential and interesting OUTPUTS from AQUAEXCEL, and **AQUAEXCEL<sup>2020</sup>** will not have yet produced OUTPUTS in the first year of the project, we will present the FP7-AQUAEXCEL OUTPUTS to the IRAP firstly, to evaluate and score potential level of impact on identified industry end users [*estimate of ~50 OUTPUTS to be evaluated*]
- From year 1 in **AQUAEXCEL<sup>2020</sup>** onwards, **AQUAEXCEL<sup>2020</sup>** OUTPUTS will be collected and presented to the IRAP in the form of project catalogues. Following a transparent procedure, the IRAP will objectively analyse the OUTPUTS and evaluate and score potential level of impact on identified industry end users [*estimate of ~200 OUTPUTS (of which 170 TNA projects) to be evaluated*]. The IRAP will provide a summary assessment for each OUTPUT (project catalogue)
- From both FP7-AQUAEXCEL and **AQUAEXCEL<sup>2020</sup>** OUTPUTS, an estimated number of about 30 high potential OUTPUTS (project catalogues) will be selected for showcasing at unique industry-research brokerage events, which will be organised by **AQUAEXCEL<sup>2020</sup>**. OUTPUT owners will be invited to these events and provided with additional support and resources to facilitate the transfer of their OUTPUT.
- IRAP will provide recommendations on current industry needs and select focus areas for the TNA calls (prioritised research areas). By relating the TNA calls to the EATiP SRIA, **AQUAEXCEL<sup>2020</sup>** will directly contribute to the implementation of the research goals the European aquaculture sector has agreed upon
- IRAP has the mandate to revise the **AQUAEXCEL<sup>2020</sup>** Knowledge Transfer methodology and the catalogue selection criteria
- IRAP will assist with the development of feedback templates for the industry-research brokerage events, to assure monitoring of brokerage, contacts, interest and uptake.

NOTE: IRAP prioritization of subjects and distribution of incentives are not compulsory, so that research teams that want to perform completely independent research in **AQUAEXCEL<sup>2020</sup>** RIs have the possibility to do so.

## **2b. Term**

This Terms of Reference is effective from the 1<sup>st</sup> October 2016 and continues until the 30<sup>th</sup> September 2020 (expected date of completion of the project).

## **2c. Composition**

The IRAP will comprise of:

- a maximum of 15 external European industry experts with expertise in 'aquaculture'. We strive to have a panel representing all major thematic themes in aquaculture.
- the 8 work package leaders of the **AQUAEXCEL<sup>2020</sup>** project

The external experts will be chosen based on their CV, to ensure that the whole aquaculture sector thematic areas are covered.

## ***2d. Commitment and Compensation***

- It is envisaged that the time commitment required will be about five to six days per year, over a period of 4 years in total.
- IRAP members are expected to attend the IRAP meetings organised in conjunction with **AQUAEXCEL<sup>2020</sup>** ExCom and/or General Assembly meetings (at least once a year).
- IRAP members are expected to prepare for each IRAP meeting by assessing the **project catalogues (OUTPUTs)** in advance, by mean of desk study. EATiP and AquaTT will ensure timely delivery of the project catalogues (OUTPUTs).
- Participation in intermediary Skype meetings is foreseen.
- Travel and subsistence in line with European Commission Travel & Subsidence (T&S) rules will be covered to attend the IRAP meetings. In addition, an honorarium (tbc) will be paid to each expert to compensate towards the time involved in all tasks related to IRAP membership.
- IRAP experts will get a first-hand insight into the latest aquaculture research happening in Europe, networking with key aquaculture experts.

## ***3. Meetings***

- All meetings will be chaired by EATiP / AquaTT.
- Decisions will be made by consensus (i.e. members are satisfied with the decision even though it may not be their first choice).
- Meeting agendas, minutes and supporting papers will be prepared and provided by EATiP / AquaTT

## ***4. Working Methodology***

- Experts will be send so-called **project catalogues** (each containing an OUTPUT with key information included) to be evaluated latest one week in advance of the IRAP meeting.
- Experts might need to spend one day of desk study to assess the catalogues.
- Experts should complete the '**project catalogue** evaluation' and return them to AquaTT and the EATiP secretariat by the timeline provided with the correspondence.
- A minimum of the 3 evaluators per OUTPUT is requested.
- Experts should make contact with the EATiP secretariat if they require any additional information or if they are not able to carry out the assessment within the time period requested.

- IRAPs meeting will usually be held for half a day to a day and agenda will be determined in advance of each meeting.
- Working methodology is outlined in the Evaluator Guide, attached to this Terms of Reference, which might be revised over the duration of the project.

All information provided to the IRAP experts are to be treated as confidential.

### ***5. Amendment, Modification or Variation***

This Terms of Reference may be amended, varied or modified in writing after consultation and agreement by the Industry & Research Advisory Panel (IRAP) members.