

**Food and Agriculture (FA)****Participating countries**

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www.fitfish.eu (not yet in the air)



Eel migration and salmon aquaculture are two important fields for applications

COST Action no. 1304

Swimming of Fish

and Implications for Migration and Aquaculture

2014 | 2018

Objectives

- Evaluation of existing knowledge on the functional **mechanisms** behind beneficial exercise effects and identification of gaps in our knowledge for targeting future research efforts;
- Evaluation of existing fish **migration** data, monitoring methodology for tracking migrant fish and bypass design, and the use of expertise within the platform to identify potential improvements;
- The use of expertise within the platform to evaluate existing swimming data, to identify gaps in our knowledge for targeting future research efforts and to design **optimal exercise protocols** for specific species and conditions;
- The use of expertise within the platform for the development of **new technology**;
- The use of the established research network to search for **collaborative project opportunities**;
- Set-up communication with policy makers (aquaculture, fisheries, environment and food authorities) for setting **directions for policy and future studies**;
- Set-up communication with the industry to explore the feasibility for **application of exercise enhancement** in aquaculture;
- **Transfer of knowledge** between scientists, industry and policy makers;
- The use of the multidisciplinary nature of the platform to **disseminate** scientific reviews;
- Construction of a **website**;
- **Training** of early stage researchers;
- **Exchange** of early stage researchers.

Main Achievements

- This Action has started on April 24th 2014;
- More info through: http://www.cost.eu/domains_actions/fa/Actions/FA1304.



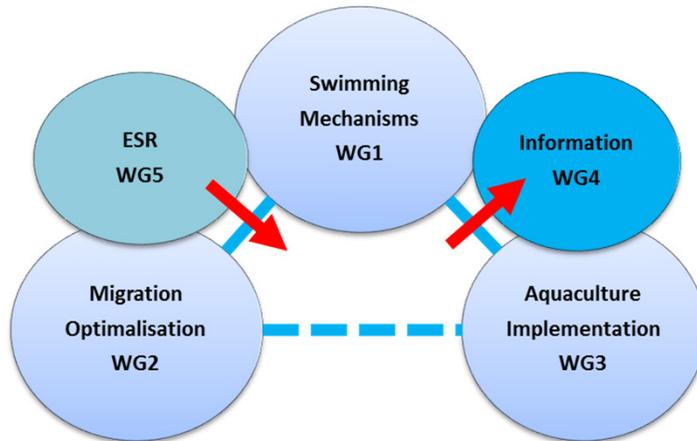
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Working Group activities



Working Group 1 Swimming Mechanisms

- evaluate existing knowledge on the functional mechanisms behind the beneficial effects of swimming and identify gaps in knowledge in this area for targeting future research efforts

Working Group 2 Migration Optimisation

- exchange and integrate knowledge among scientists and experts involved in the field and to develop a research agenda aimed at generating new knowledge in the fields of monitoring fish behaviour in real-life situations, experimental approaches in which the effect of disturbing cues on behaviour and physiology of individual fishes is investigated, and modelling the effects of mitigating measures on population dynamics

Working Group 3 Aquaculture Implementation

- gather expertise to evaluate existing swimming data, to identify gaps in our knowledge for targeting future research efforts and to design optimal swimming protocols for specific species and conditions

Working Group 4 Information

- transfer of knowledge between scientists and industry, and policy makers

Working Group 5 Early Stage Researchers

- training of Early Stage Researchers

Industry participation



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