Ca' Foscari University of Venice

PROJECT ACRONYM AND TITLE: **GAIN – Green Aquaculture Intensification in Europe**

FUNDING PROGRAMME: **HORIZON 2020**

CALL: **H2020-SFS-2016-2017 - Societal Challenge 2 - Sustainable Food Security – Resilient and resource-efficient value chains**

SCIENTIFIC FIELDS: **Aquaculture, fisheries**

HOST DEPARTMENT: **Department of Environmental Sciences, Informatics and Statistics**

SCIENTIFIC RESPONSIBLE: **Roberto Pastres**

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 5.998.795,00	€ 710.328,75

ABSTRACT:
GAIN is designed to support the ecological intensification of aquaculture in the European Union (EU) and the European Economic Area (EEA), with the dual objectives of increasing production and competitiveness of the industry, while ensuring sustainability and compliance with EU regulations on food safety and environment. Eco-intensification of European aquaculture is a transdisciplinary challenge that requires the integration of scientific and technical innovations, new policies and economic instruments, as well as the mitigation of social constraints. Successful eco-intensification of aquaculture will provide more and better aquatic products, more jobs, and improve trade balance by reducing imports. GAIN, besides looking at innovative ways of integrating cultured species, will seek integration with other sectors, in order to promote the implementation of the principles of circular economy in Aquaculture. The GAIN Consortium includes a wide range of complementary expertise and a well blended mix of research institutes and industrial partners, which will ensure the achievement of the following specific objectives: (i) Develop and optimize sustainable feeds, without increasing the pressure on land and fish stocks; (ii) Add value to cultivation, by means of innovative processes, which turn both by-products and side-streams into valuable secondary materials, thus increasing profits and minimizing the environmental footprint; (ii) Improve the management of finfish and shellfish farms, in terms of FCR, fish welfare and reduction of wastes, through the use of sensors, biomarkers, Big Data, IoT (Internet of Things) and predictive mathematical models; (iv) Support integrated policies and address current barriers to the implementation of the principles of circular economy in aquatic production.

Planned Start date	Planned End date
1st May 2018	31st October 2021

PARTNERSHIP:

1 Università Ca' Foscari Venezia	Italy	Coordinator
2 The University of Stirling	United Kingdom	Partner
3 Alfred-Wegener-Institut Helmholtz-Zentrum Fur Polar - Und Meeresforschung	Germany	Partner
4 IBM Ireland Limited	Ireland	Partner
5 Agencia Estatal Consejo Superior Deinvestigaciones Cientificas	Spain	Partner
6 Longline Environment Limited	Ireland	Partner
7 Sparos LDA	Portugal	Partner
8 Salten Havbrukspark as	Norway	Partner
9 Wageningen University	Netherlands	Partner
10 Johann Heinrich Von Thuenen-Institut, Bundesforschungsinstitut Fuer Landliche Raeume, Wald Und Fischerei	Germany	Partner
11 Agrifood And Biosciences Institute	United Kingdom	Partner
12 Zachodniopomorski Uniwersytet Technologiczny W Szczecinie	Poland	Partner
13 Asociacion Nacional De Fabricantes De Conservas De Pescados Y Mariscos-Centro Tecnico Nacional De Conservacion De Productos De La Pesca	Spain	Partner
14 Multivector AS	Norway	Partner
15 GILDESKAL FORSKNINGSSTASJON AS	Norway	Partner
16 Lebeche Spain S.L.U.	Spain	Partner
17 Sagremarisco-Viveiros de Marisco Lda	Portugal	Partner
18 Fondazione Edmund Mach	Italy	Partner
19 Dalhousie University	Canada	Partner
20 South China Sea Fisheries Research Institute, CAFS	China (People's Republic of)	Partner