

PROJECT PARTNER:
PP3-TCCI

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ADRIATIC-IONIAN

European Regional Development Fund – Instrument for Pre-Accession II Fund

MultiSpirulina - Multitrophic Aquaculture as Innovative Tool in a Spirulina farm

BLUE_BOOST



#Blue Growth, #Innovation, #multi-trophic aquaculture, #shrimp farming, #spirulina

awarded with

★ **10.000€** ★
★ **INNOVATION** ★
★ **VOUCHER** ★

PROJECT DESCRIPTION:

ALGAE A.C. has an organic Spirulina algae aquaculture farm in indoor facilities, which, due to environmental conditions, has a producing period limited to 8 months per year. Thus, utilizing farm facilities for the remaining 4 months is one of the company's main goals.

The MultiSpirulina project investigates the possibility of growing shrimp species within these 4 months, where the farm does not produce Spirulina, as shrimp farming is today one of the fastest growing types of aquaculture.

The innovative features of the project are: the project is a pioneer for Greece, there is no other shrimp farm in the country and it is attempted to apply for the first time a MultiTrophic farming in the same farm, expanding the financial benefit of the company.

The project implementation gives the following benefits to the ALGAE company: 1) the use of the farm facilities throughout the year, expanding the production period, 2) the introduction of a new species into farm's production procedure, expanding company's products, 3) the acquisition of know-how and technical expertise for a new aquaculture species with rapid growth, 4) the potential increase in the company's turnover.



COMPANY:

ALGAE A.C. Greece

www.spirulina.gr

ALGAE A.C. is an Organic Spirulina Producer, established in 1997 in Greece, being the first Spirulina Producer in Europe.



PROVIDER:

Institute of Applied Biosciences (INAB), Centre for Research and Technology Hellas (CERTH) Greece

www2.inab.certh.gr

Lead Partner



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Patras Science Park



Apulia Region

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www.interregadrion.eu

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PROJECT PARTNER:
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PROJECT TITLE:

COATFISH - Use of antifouling coating in netting traps for the coastal fisheries

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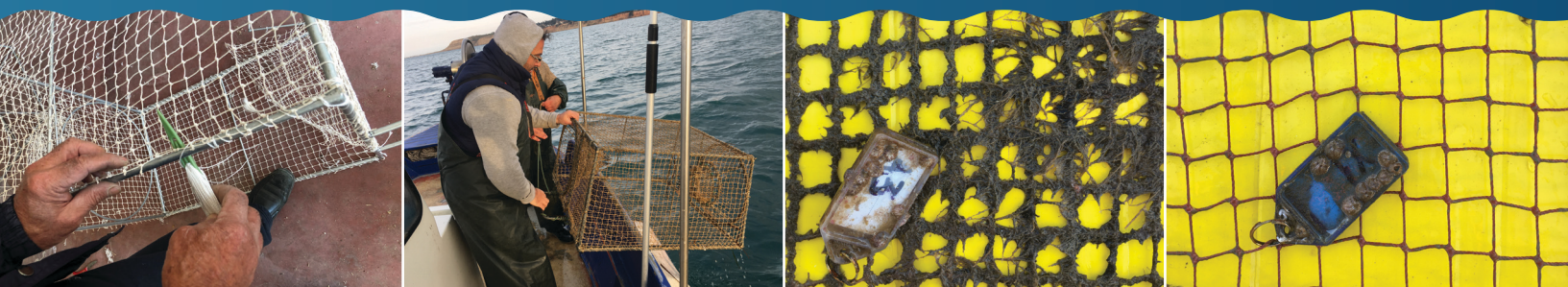
#Blue Growth, #Innovation, #small scale fisheries, #sustainable fisheries, #static fishing gears

awarded with

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★ **INNOVATION** ★
★ **VOUCHER** ★

PROJECT DESCRIPTION:

COATFISH project concerns the design, construction and field testing of netting traps - static fishing gears used in most small-scale fisheries- coated with antifouling substances, with the aim of reducing marine growth on the gear's net for the period that the gear is immersed in the sea, testing conventional and alternative, environmental friendly substances. The main objective of the project is to improve the efficiency of netting traps, because biofouling decreases fish catching rates and complicates the fishing procedure mainly through adding extra weight while, lifting the gears on-board. The main beneficiaries of this improved gear will be the coastal fishers, especially those operating in highly eutrophic areas - such as the Thermaikos gulf, northern Greece- with increased biofouling rates on manmade structures. The results of this project are expected to enhance technological development and know-how in the fishing gear construction industry. This is particularly important for companies such as DIOPAS SA, which provide the local communities of coastal fishers with a variety of fishing gears that need to be both efficient and environmentally friendly.



COMPANY:

DIOPAS SA Greece

www.diopas.com

DIOPAS SA is a specialized company, which manufactures all kinds of aquaculture, fishing and sport nets and ropes.



PROVIDER:

Ichthyology Lab., Aristotle University of Thessaloniki Greece

fishlab.bio.auth.gr



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PROJECT PARTNER:
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PROJECT TITLE:

DREAM - Development of an artificial reproduction method for sea cucumbers

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#Blue Growth, #Innovation, #sea cucumbers, #reproduction, #aquaculture



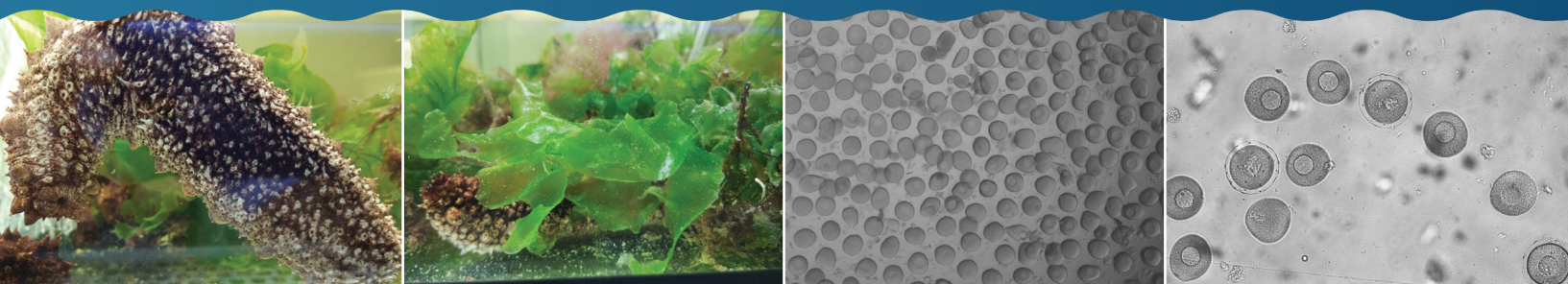
PROJECT DESCRIPTION:

The global trade of sea cucumbers is affected by the Chinese market, forcing aquaculture development and causing depletion of many natural stocks. The strong interest for sea cucumber farming and natural population's restoration due to intense fishing pressure in Greece demands the production of sea cucumber germplasm.

The goal of the DREAM project is to develop an artificial reproduction method for sea cucumbers, in order to produce healthy and certified germplasm so that the company will proceed with the development of the first sea cucumber farm in Greece.

The project consists of 5 stages: **a)** feasibility study, **b)** sea cucumber broodstock supply, **c)** testing artificial reproduction methods, **d)** larval rearing, **e)** results evaluation.

The project gives the following benefits to the company: **1)** acquisition of technical expertise for a new species with rapid growth, **2)** contribution to the environmental management of species that are at risk, **3)** increasing its competitiveness and **4)** covering the market requirements.



COMPANY:

North Aegean Seafood Greece

www.northaegeanseafood.com

The company was established in 2012 with objective the development of aquaculture farm with sea cucumbers and fish.



PROVIDER:

Institute of Applied Biosciences (INAB), Centre for Research and Technology Hellas (CERTH) Greece

www2.inab.certh.gr

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PROJECT PARTNER:
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PROJECT TITLE:

INTERACT - Using an online monitoring system to control mussels' safety conditions

#Blue Growth, #Innovation, #mussels safety, #online monitoring system

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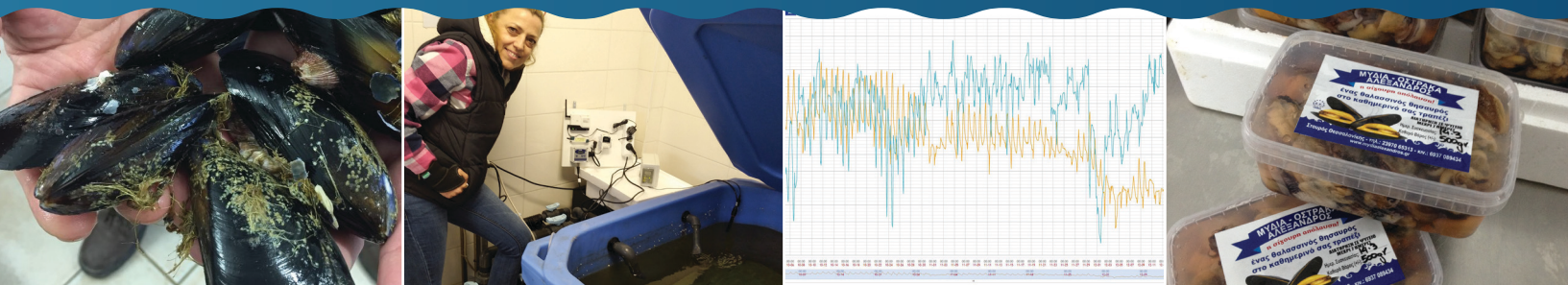
PROJECT DESCRIPTION:

Shellfish is a very popular and nutritious food source and has its own distinct aspects of harvest, processing and handling. Safety monitoring is essential to ensure that the shellfish produced is both safe and suitable for consumption.

The INTERACT project is focusing on the implementation of an on-line monitoring system for shellfish handling critical points during company's operations, in order to have high accuracy on the monitoring parameters, immediate information for any failure conditions, immediate accessibility of the data, remote control and data time series.

The system monitors sea water temperature, salinity and pH in the shellfish depuration system and air temperature in the two refrigerating chambers with mussel packages.

The results of project implementation into the company's operation are: **a)** immediate information for any failure conditions, **b)** immediate accessibility of the data, **c)** accuracy on the monitoring parameters, **d)** remote control and monitoring, **e)** producing data time series, **f)** saving time and cost.



COMPANY:

Aspasia Konialidou - Alexandros Mussels Greece

www.mydiaalexandros.gr

A small family company active in the field of shellfish depuration, distribution and processing products.



PROVIDER:

Kostas Koukaras (Professional Freelancer, Biologist, Aquaculture and Water monitoring expert) Greece

www.kostaskoukaras.com



Kostas Koukaras
Leading innovation in Aquaculture

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PROJECT PARTNER:
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PROJECT TITLE:

AROMA-2-FISH- aromatic herbs for fish fillets of high nutritional value

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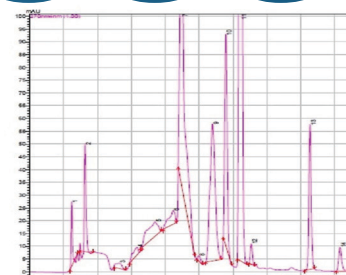


#Blue Growth, #Innovation, #health promoting fish fillets, #aromatic herbs



PROJECT DESCRIPTION:

Canning is a safe, healthy and relatively inexpensive way of preserving fish products for long time periods, while various canned fish products are very well perceived by modern consumers. In the framework of AROMA-2-FISH innovative project, fish fillets or whole fish were preserved in brine including different mixtures of aromatic herbs. The right ratio of mixtures improved efficiently both aroma and taste of traditional tuna, sardine and anchovy products. Furthermore, the functional fish fillets produced are more healthful than traditional canned products, since additionally to their richness in ω -3 fatty acids, healthy metals and minerals, they are rich in healthy ingredients originated from aromatic herbs, believed to be protective against modern diseases. An organoleptic trial to evaluate consumers' perception showed that a significant part of them found AROMA-2-FISH fillets rich in aroma and richer in taste than traditional fillets. All the above, improved aroma, taste and nutritional value, should lead consumers to buy such fillets more frequently. The AROMA-2-FISH project enhanced our team to meet the needs of consumers for natural health promoting seafood products.



COMPANY:

Thinkgreen Natural Goods Greece

www.thinkgreen.gr

Trade of Greek Organic Premium Products, based on Traditional Greek-Mediterranean Recipes using eco-friendly technologies



PROVIDER:

Laboratory of Bioinorganic Chemistry, Metabolism Analysis and Biology of Organisms (Lab) Department of Nutritional Sciences and Dietetics (DNSD)
International Hellenic University (IHU-DNSD Lab) Greece www.nutr.ihu.gr/en

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