

PROJECT PARTNER:
Apulia Region

Interreg

ADRION



ADRIATIC-IONIAN

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

PROJECT TITLE:

RFID (Radio-frequency identification) MUSSELS

BLUE_BOOST

#Blue Growth, #Innovation, #sea, #traceability

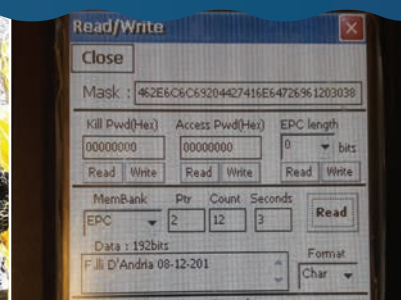
awarded with
10.000€
INNOVATION
VOUCHER

PROJECT DESCRIPTION:

The project aims at reducing and preventing equipment and mussel ropes thefts in the open sea, through RFID sensors. Nowadays many mussel farms in open sea (Adriatic and Ionian) face continuous thefts of their equipment (long line buoys for mussel farms) and mussel ropes or net bags. This situation reduces profitability and competitiveness and represents a major problem for the mussel farmer. Thanks to RFID sensors the company will have a traceability system for equipment and mussels rope.

RFID passive sensors have been hidden into the long line buoys that are floats made of HDPE plastic and are hollow: after RFID sensors incorporation into the buoys, the farmer blocked them using polyurethane foam. RFID tags have been hidden into the mussel ropes as well and, in this case, they are black (like mussels) and look like product labels.

RFID uses electromagnetic fields to automatically identify and track tags attached to buoy and ropes. The tags contain electronically stored information. Passive tags collect energy from a nearby RFID reader's interrogating radio waves. Active tags have a local power source (such as a battery) and may operate hundreds of meters from the RFID reader.



COMPANY:

D'Andria Mare s.r.l. Italy

It deals with transformation and packaging of bivalve and cephalopod molluscs



PROVIDER:

Ittilink Soc. Coop. Italy

www.ittlink.eu

Lead Partner



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PROJECT PARTNER:
Apulia Region

PROJECT TITLE:
Sea Reader

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PROJECT DESCRIPTION:

It is a sustainable smart solution and device for monitoring temperature and pH in waters inside the aquaculture plant to support the farmer in the management of production. The system is based on the construction of a sensorized buoy for the automatic acquisition of environmental parameters and a software interface module for accessing data supporting the farmer in the identification of correlation between biological data collected and production data. The surface of buoy has been equipped with sensors for temperature and pH, so through a mobile device the farmer can constantly monitor the waters of his plants and through the historicization of the data, he can consult the trends of the previous measurements also on annual basis. With these data the farmer can estimate the amount of feed to dispense (if the water is too cold fishes don't eat) to avoid, for example, food waste disperses on bottom of cages. The smart buoy can also inform on marine weather conditions and forecasts to schedule maintenance operations.



COMPANY:

Maricoltura Mattinatese Soc. Coop. A. R. L. Italy

www.mariocultura.com

It is a cooperative operating in mariculture through the construction and management of breeding facilities of mussels, molluscs, fish, crustaceans and algae



PROVIDER:

Apphia s.r.l. Italy

www.apphia.it



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PROJECT PARTNER:
Apulia Region

PROJECT TITLE:

Mediterranean Interactive Floor - M.I.F.

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#Blue Growth, #Innovation, #sea, #identity, #sea museum, #tourism

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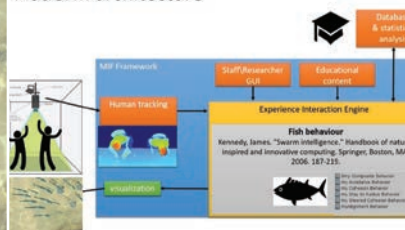
PROJECT DESCRIPTION:

The MAREA museum in Gallipoli, Lecce, hosts in the marine habitats room a virtual interactive seabed projected by a mini PC. Before the project implementation, it displayed a non-Mediterranean seabed, with limited interactivity and educational content. The project "Mediterranean Interactive Floor" - M.I.F., in cooperation with the Vr3lab of Politecnico di Bari, aims at re-engineering the current software and re-using the existing hardware. In particular the team designed two scenarios of Gallipoli seabed, with local flora and fauna, in collaboration with the staff and the experts of Emys (managing the museum). The benefits are: strengthening the museum identity, achieving educational goals, improve visitors' engagement and number.

Divers shot pictures at the local marine environment to enable the Vr3lab of Politecnico di Bari to realize the two different seabeds (sand and rocks). The result is a local interactive product: visitors can interact with every figure. This project can also have different applications even out of museum, for example schools and sea fairs.



Platform architecture



COMPANY:

Emys Italy

www.mareagallipoli.it; www.emysambiente.it

It promotes and carries out projects and activities in the field of training, information, environmental education, sustainable development



PROVIDER:

Politecnico di Bari Italy

www.poliba.it

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PROJECT PARTNER:
Apulia Region

PROJECT TITLE:

NAiF - Nature Adventures in Frassanito

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PROJECT DESCRIPTION:

The area of Frassanito, Lecce (Apulia Region) is characterized by natural, cultural and historical values due to the richness of vegetation and amazing landscapes in particular on the coast. However, tourists visit this area mainly in summer months, so the small local farms and hotels don't make large investment to remain opened during other months of the year. The project "Naif" focuses on a valorisation of all area of Frassanito in all seasons. The idea is to create a new image of the area, which already got a nature approach but needs to best strengthening with contents and an 'all year' promotion. The project aimed at changing the traditional business approach that the company used until now with very low results, into a real digital strategy able to face the new challenges and the global competition. For that, one of the main goal of the project is to develop a digital strategy that will promote, at the same time, company through these experiences around Frassanito area with a common strategy. For this reason Naif project prepared some travel packages for weekends during winter season to promote some activities such as: windsurf or kitesurf with yoga courses or coastal trekking and kayak with environmental guide. Thanks to dedicated graphic design, creation of promotional video and photos taking place in Sangiorgio camping, NAIF promotes on web and on social network Sangiorgio Camping as the first accommodation where live these experiences.



COMPANY:

San Giorgio Camping Italy

www.agriturismosangiorgio.com

It provides short stay accommodation (rooms or camping and camper area fully equipped) and is always opened working with hospitality and agriculture

PROVIDER:

G.Local tour operator Italy

www.glocaltour.it



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PROJECT PARTNER
Apulia Region

PROJECT TITLE:

AsMar

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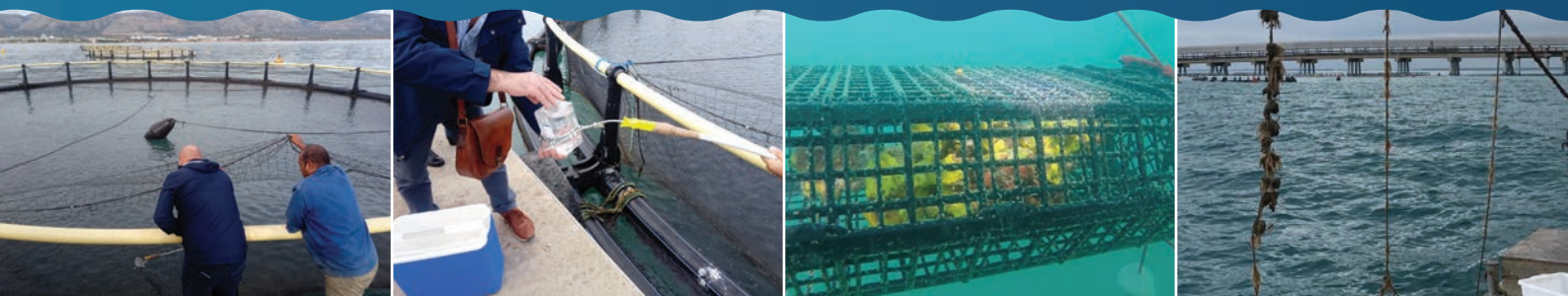
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PROJECT DESCRIPTION:

ASMar project mainly focuses on assessment of sponge mariculture in the Gargano Shell Fish Farm in Adriatic Sea able to provide positive outcome on bioremediation, animal welfare and diversification of aquaculture production and process. ASMar tests survival and growth of different sponge species nearby off-shore fish farms. It may have two main benefits: speed up the sponges growing up due to an increased availability of organic food and reduction of waste caused by fishfarm through the remediation of filtering activities. The reared sponge biomasses have high potential commercial interest being source of marine natural products and/or exploitable for cosmetic purpose (e.g. bath sponges), production of natural biocides, pharmaceutical industry, source of bioactive compounds. The sponge mariculture may also lead toward the reduction of environmental impact, because porifera are marine benthic invertebrates, effective filterer feeders, capable of removing from the sea-water organic particles. The assessment of the sponges mariculture tested in ASMar, represents a further step in the environmentally friendly polyculture of edible and not edible species toward IMTA implementation.



COMPANY:

Gargano Shell Fish Farm Italy

www.sea-farm.eu

It is an off shore aquaculture company operating in sea bass and sea bream production



PROVIDER:

University of Bari Aldo Moro - Biology Department Italy

www.uniba.it/ricerca/dipartimenti/biologia

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