

Advanced Specialised Course in Sustainable Development of Coastal Communities

September 9 – November 15, 2019



CIHEAM Bari has launched a new advanced specialised course on **"Sustainable Development of Coastal Communities"**, funded by the Italian Cooperation, and realized in collaboration with FAO in the context of the Blue Hope Initiative.

FAO conceived the initiative called *Blue Hope*, launched in 2013, with the aim to develop sustainable fisheries, aquaculture and related aquatic sectors for maximizing social and economic benefits and minimizing environmental degradation, threats and stressors. In the Mediterranean area, in the sub-Saharan Africa and in the Indian sub-continent these factors are particularly serious, exacerbated by poverty, lack of alternative livelihoods and political instability.

Objectives

In this framework, the main aims of the course were to strengthen stakeholders' capacities and develop and implement integrated management policies, strategies and tools, focusing especially on stakeholders' empowerment, offering a comprehensive view of the Blue Economy explored through a cross-sectoral approach.

Fishery, aquaculture and sustainable coastal development were the major areas developed in the course, focusing in particular on management, technical and legal aspects and taking into account administrative issues.

This course was designed to assist ministerial officials from Mediterranean and Indian Ocean countries, who are directly involved in the planning of coastal uses.

Learning outcomes

The course participants were trained on:

- Identification of strengths and limitations of sustainable development of their own coastal territories and promote development initiatives under an integrated approach including different sectors such as fisheries, aquaculture and coastal and maritime development tourism.
- Acquisition knowledge about the international and regional legislative issues related to the fisheries management, aquaculture development and sustainable coastal and maritime tourism for contributing to improve the legislative frameworks in their own countries.
- Familiarization with the relevant methodologies for the understanding of ecological models, the assessment of marine resources status and the identification of fisheries and aquaculture management measures.

Develop their knowledge of the main innovations and management models for improving the seafood value chain, managing the environmental threats and increasing the competitiveness of the fisheries, aquaculture and coastal and maritime tourism sectors.

Course structure

The first part of the course took place at CIHEAM BARI institute. After one week participants were transferred to Tricase Porto (Le), at the MARE outpost, where the activities were carried out.

The course involved experts from national and international contexts, including universities, international organizations, research agencies, public and private operators.

The training period was organized in weekly units (6 days for each one) for a total duration of 10 weeks. The classes included frontal lectures and interactive activities integrated with technical trips and discussion sessions with private stakeholders.

The frontal lectures were held for 5 days per week (from Monday to Friday) and 6 hours per day. They were characterized by an interactive approach strongly stimulated by lectures, and based on the integration of theoretical knowledge with the analysis of case-studies and good practices, as well as promoting team working among trainees for sharing issues and solutions, and encourage future collaborations.

The last day of each weekly unit (Saturdays) was dedicated to technical visit, field-work, meetings and seminars with private stakeholders. They were carried out in collaboration with several lecturers, in order to better support the participants in the understanding of critical issues related the case study and the practical solutions provided.

Beneficiaries & Admission Procedures

The course was addressed to officials from the Ministries of Agriculture and Fishery of Mediterranean region and IORA countries. The selection procedure was based on the analysis of curriculum profile and motivation, to ensure that the learning outcomes were successfully achieved.

Participants were nominated by the competent Ministries in which they are employed, who authorized the re-selected candidates to apply for this course through the online application platform on the CIHEAM Bari website. After the selection by CIHEAM Bari commission, through the evaluation of documents and personal interview (Skype call), 1 or 2 participants per country were chosen.

The 14 final participants have benefited of full scholarships covering all course expenses (travel, board and lodging, insurance, pocket money).

Language Requirement

Participants must have a good working knowledge of English.

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PROGRAM COURSE

DATES	BULLETS	LECTURERS
September 11	<ul style="list-style-type: none"> Blue Economy and Blue Growth concept 	Leonardo Manzari, EUROPEAN INSTITUTE FOR EURASIAN DIALOGUE
September 12	<ul style="list-style-type: none"> Integrated Coastal Zone Management (ICZM) Marine Spatial Planning (MSP); Identification and involvement of stakeholders 	Andrea Barbanti, ITALIAN NATIONAL RESEARCH COUNCIL
September 13	<ul style="list-style-type: none"> Dimensions of sustainability: environmental, economic, socio-cultural, and health-nutritional Sustainable Food System (SFS): fisheries, typical product, food supply chain, and diet model Transition to Sustainable Development Goals (SDGs) in the 2030 Agenda of UN SDG 14 (Conserve and sustainably use the oceans, seas and marine resources for sustainable development) 	Gianluigi Cardone, CIHEAM Bari
September 16-18	<ul style="list-style-type: none"> Current status and future trends of the World and Mediterranean fisheries; Promotion of the concept of responsible fisheries Sustainable Fishing Techniques and innovative technology Co-management and MPAs 	Giovanni Romagnoni, COISPA
September 19	<ul style="list-style-type: none"> Introduction to the Ecosystem Approach to Fisheries 	Deborah Catena, FAO
September 20	<ul style="list-style-type: none"> Illegal, unreported and unregulated fishing 	Adela Rey Aneiros, FAO

September 23-24	<ul style="list-style-type: none"> Horizontal cooperation Horizontal and vertical integration 	Luca Mulazzani, UNIVERSITY OF BOLOGNA
September 25	<ul style="list-style-type: none"> Jellyfish proliferation (dynamics and valorisation) - <i>webport session</i> 	Stefano Piraino, UNIVERSITY OF SALENTO
September 26	<ul style="list-style-type: none"> Marine Forests: direct and indirect impacts, restoration and management in MPAs 	Sergio Rossi, UNIVERSITY OF SALENTO
September 27	<ul style="list-style-type: none"> Alien species (monitoring and control, opportunity) 	Stefano Piraino, UNIVERSITY OF SALENTO
September 28-Field visit	<ul style="list-style-type: none"> Marine Protected Area and Regional Park 	Porto Cesareo (Lecce)
September 30	<ul style="list-style-type: none"> Marine litter pollution (Economy, mitigation, reduction and disposal) Field visit - (Torre Pali, Lecce) 	Cristina Panti, UNIVERSITY OF SIENA
October 1-2	<ul style="list-style-type: none"> Geographic information system (GIS and WebGIS) Citizens' science approach Data collection, data analysis and data gaps 	Federica Foglini, Sara Innangi, ITALIAN NATIONAL RESEARCH COUNCIL
October 3	<ul style="list-style-type: none"> Current status and future trends of the World and Mediterranean aquaculture Analysis of the Aquaculture Sector Value Chain 	Bernardo Basurco, CIHEAM Saragozza
October 4	<ul style="list-style-type: none"> Action learning day 	L. Lamberto, G. Ladisa, P. debs, CIHEAM Bari
October 5-Field visit	<ul style="list-style-type: none"> Sea Turtle Rescue Centre 	Calimera (Lecce)
October 7-8	<ul style="list-style-type: none"> International/Regional strategies and Action Plans (EUSAIR, WESTMED, BLUEMED, etc.) 	Leonardo Manzari, EUROPEAN INSTITUTE FOR EURASIAN DIALOGUE
October 9-10	<ul style="list-style-type: none"> Introduction to AZA AZA regulation Aquaculture zoning Management of AZA Environmental Impact Assessment (EIA) 	Orazio Albano, CIHEAM Bari
October 11-Field visit	<ul style="list-style-type: none"> MARE VIVO - aquaculture farming 	Castro (Lecce)
October 14-18	<ul style="list-style-type: none"> Promotion of the concept of responsible aquaculture 	Ana Menezes, Elisabetta Martone, Pierre Murekezi, FAO

- Responsibility in aquaculture management;
- Issues of public concern
- Cooperation at national, sub-regional and regional level
- Producers' organisations
- Ecosystem approach to aquaculture (EAA)
- Integrated Multi-Trophic Aquaculture
- Best Aquaculture Practices

October 21-25	<ul style="list-style-type: none"> • Consolidated and new species • Animal welfare • Feeding • Marine cage culture • Field visit - (Torre canne, Brindisi) Panittica, Reproduction centre for marine fish species 	Alessio Bonaldo, Luca Parma, UNIVERSITY OF BOLOGNA
October 27-Field visit	<ul style="list-style-type: none"> • Hatchery InMare 	Torre Suda (Lecce)
October 28-31	<ul style="list-style-type: none"> • Food security and nutrition • Food safety and quality • Global frameworks • Fish processing and technology • Packaging • Fish by products • Food loss and waste (FLW) • Cold chain • Markets and trade of fishery and aquaculture product • Certification and eco-label • Traceability 	Nada Bougouss, Esther Garrido-Gamarro, Omar Penarubia, Ansen Ward, FAO
November 5-6	<ul style="list-style-type: none"> • Gender equality and women's empowerment in small scale fisheries, with specific focus on gender discourse in FAO SSF guidelines 	Patrizia Pugliese, Marie Reine Bteich, CIHEAM Bari
November 7-8	<ul style="list-style-type: none"> • Promotion of the concept of sustainable tourism • Linking up sea and inland attractors (wine & food, culture, sports, etc.) • Eco-tourism (natural, cultural and historic itineraries) 	Gianfranco Ciola, LAG ALTO SALENTO
November 9-Field visit	<ul style="list-style-type: none"> • Marine Protected Area 	Torre Guaceto (Brindisi)

November 11 - 12	<ul style="list-style-type: none"> • Presentation of case-studies and projects within the context of development international cooperation • Port Museum (tangible and intangible cultural and natural heritage) • Diversification of economic activities (direct sales, <i>pescaturismo</i> and <i>ittiturismo</i>) • Presentation of local good practices and cooperatives 	<p>Massimo Zuccaro, CIHEAM Bari</p> <p>Antonio Errico, MAGNA GRECIA MARE ASSOCIATION</p> <p>Rocco Cazzato, ITTITURISMO ANIME SANTE</p>
November 13-14	<ul style="list-style-type: none"> • Action learning days 	<p>L. Lamberto, G. Ladisa, P. Debs, S. Madzagic, CIHEAM Bari</p>
November 15	<ul style="list-style-type: none"> • Ceremony and delivery of certificates 	

Evaluation system

The results of the learning activities were monitored throughout the life of the course through the submission of evaluation tests, each week, at the end of the didactic modules.

Furthermore, participants prepared and discussed a collective project's work guided by action learning tutors during the training period, applying the acquired knowledge, which was discussed and assessed by the members of the jury and the course coordinator. The project's work could find a possible realization under the Blue Hope and Blue Growth initiatives.

Participants attended and participated actively in all lectures, seminars and activities included in the course program. Through the Claroline web-platform, weekly evaluation tests were provided. Each lecturer prepared an evaluation test set as follow: from 5 to 8 questions on the daily training program, multiple choice or close-ended (true-false). For each question a difficult index was defined.

Grading System

Tests, reports, and project work received a score comprised between 0 and 100. Grading measured the participant's learning level, both in absolute terms and compared with peer performance. Final result was based on the average of the evaluation tests and on the participant's participation in all training activities organized as part of the course. The grading system is shown in the following table:

Numerical score	Definition
85-100	Excellent
70-84	Good
50-69	Satisfactory
40-49	Unsatisfactory
0-39	Poor

Certificate

At the end of the course, successful participants were awarded a Certificate of Attendance accompanied by a transcript of records. For a final result higher than (70) 20 credits were attributed. These credits will be recognized in the case of further participation at CIHEAM Bari courses.