

## **INTERREG MED PROGRAMME**

### ***FISHMPABLUE2 PLUS PROJECT***

#### **Act. 3.3 Capacity building**

#### **Deliverable 3.3.a “Overall Training Strategy”**

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## **1. Background and aim of this document**

FishMPABlue 2 Plus is the follow-up of FishMPABlue 2 (2017-2019, <https://fishmpablue-2.interreg-med.eu/>), and of FishMPABlue (2015-2016, <http://www.medmaritimeprojects.eu/section/fishmpablue>).

In the framework of FishMPABlue project an analysis of existing small-scale fisheries (SSF) within and around 31 MPAs from 5 Mediterranean countries was conducted, focusing on the “professional” SSF sector, also usually called “artisanal fishers” in Mediterranean countries. The objective was to propose strategies that would strengthen and enhance MPA capacities in SSF management that could be achieved through concrete interventions (gathered in a “governance toolkit”, proposing several measures for each identified area of concern). The original toolkit identified the following enabling conditions for a successful SSF management:

- 1) Fishers representation in MPA decision-making bodies
- 2) “Enforcement”, i.e. fostering MPA capacities in surveillance and patrolling
- 3) Fishers’ engagement in MPA activities (e.g. decision making, monitoring, patrolling)
- 4) Support to sustainable fishery-related products/services (e.g. short production and distribution chain, pescatourism, quality labels)
- 5) Management plans for SSF within MPAs, agreed with fishers

A list of measures and interventions potentially (and positively) contributing to improved MPA management effectiveness was prepared as a final output of FishMPABlue.

The FishMPABlue2 project was setup to test these management measures in 11 pilot MPAs from 6 Mediterranean countries. The objective was to assess and quantify the effectiveness of the measures in achieving expected results in terms of MPA ecological results, benefits delivered to SSF and social acceptance by stakeholders.

In each MPA, the project was carried out through a Pilot Action aimed to implement and test the effectiveness of the governance toolkit; it was developed through 3 main steps:

- 1) assessment of ecological, economic and social status of SSF in the context of MPA before the implementation of the governance measures
- 2) pilot action implementation, whose main activity was the application of some MPA-specific governance measures selected from the Governance toolkit
- 3) assessment of ecological, economic and social status of SSF after the implementation of the governance measures, allowing assessment of the latter's effectiveness for SSF.

The FishMPABlue 2 project produced, among the other things, 1) a “Governance Toolkit for managing Small-Scale Fisheries in Mediterranean Marine Protected Areas” ([https://fishmpablue-2.interreg-med.eu/fileadmin/user\\_upload/Sites/Biodiversity\\_Protection/Projects/FishMPABlue\\_2/Toolkit\\_FishMPABlue2\\_25jul2019\\_52pgs\\_WEB.pdf](https://fishmpablue-2.interreg-med.eu/fileadmin/user_upload/Sites/Biodiversity_Protection/Projects/FishMPABlue_2/Toolkit_FishMPABlue2_25jul2019_52pgs_WEB.pdf)) and 2) a “Common methodology for design and execution of sound scientific monitoring of small scale fishery within and around an MPA” ([https://fishmpablue-2.interreg-med.eu/fileadmin/user\\_upload/Sites/Biodiversity\\_Protection/Projects/FishMPABlue\\_2/Library/Deliverables/Deliv\\_3.1.2\\_updated\\_monitoring\\_methodology\\_Def.pdf](https://fishmpablue-2.interreg-med.eu/fileadmin/user_upload/Sites/Biodiversity_Protection/Projects/FishMPABlue_2/Library/Deliverables/Deliv_3.1.2_updated_monitoring_methodology_Def.pdf)).

Aim of the FishMPABlue 2 Plus is to train 11 Pilot MPAs both on the FishMPABlue2 SSF governance toolkit and on the integrated assessment methodology to assess Marine Protected Areas ecological and fisheries effectiveness. The Aim of this document is to present the training strategy to implement these activities.

## **2. Training on the “FishMPABlue2 SSF governance toolkit”**

Each project partner is responsible for providing specific training and coaching to its domestic MPAs, through webinars and/or on-site meetings. In addition, a webinar was organized by Stazione Zoologica Anton Dohrn to present to all the Pilot MPAs

the Governance Toolkit, its objective, approach and contents. The webinar was held on October 13<sup>th</sup> 2021 on Zoom. All Pilot MPAs attended the 1-hr webinar in English.

The presentation can be accessed as a pdf at the link [https://drive.google.com/drive/folders/1UYybzbQ11-RI\\_992jc42IIIJ3Mnej5-N](https://drive.google.com/drive/folders/1UYybzbQ11-RI_992jc42IIIJ3Mnej5-N)

### **3. Training on the integrated methodology to design and implement monitoring activities to assess Marine Protected Areas ecological and fisheries effectiveness**

This training will be delivered during a summer school, on-site one-week training – in classroom and on the field (i.e. at sea and on the dock) – on the approach to design and implement monitoring activities to assess Marine Protected Areas ecological and fisheries effectiveness. The summer school will be held at the Pilot MPA of Samaria Crete Island, Greece, tentatively during end of May-beginning of June 2021 (dates will be decided shortly). One representative of each pilot MPA will attend the summer school.

The summer school will follow the same scheme adopted for a previous summer school organized in the framework of FishMPABlue 2 (“Summer school: Sampling methodologies to assess Marine Protected Areas ecological and fisheries effectiveness”) at Zakynthos Marine Park, Greece 21-27 September 2019.

The goal of the summer school will be to increase MPA staff skills on designing and implementing a comprehensive and integrated monitoring system to assess the environmental assets of MPAs (ecosystems, biodiversity, etc.) and the actual impact of small-scale fisheries on such assets. Participants will be trained in monitoring methodologies and techniques (see details) of the environmental (underwater visual census, baited underwater videos), economic (measurement of fish catches and their economic value) and social (questionnaires) aspects of small-scale fisheries around and within MPAs.

The Summer School will alternate lectures in the classroom, practice in the field, practical sessions of data handling and analyses. All the activities will be run by

researchers from Stazione Zoologica, University of Palermo, and other project partners.

A tentative agenda of the summer school is reported here:

DAY 1 – participants’ travel to Samaria

DAY 2 –

TIMING	ACTIVITY	TYPE	MATERIAL NEEDED
8:00	Participants registration	REGISTRATION	
8:30	Welcome to participants	OPENING	
8:40	Summer school agenda description	OPENING	
8:50	Participants self-introduction	OPENING	
LECTURES			
9.00 AM – 9.45	General introduction on 1) Marine Protected Areas (MPAs) and MPA socio-ecological benefits, and 2) experimental design in MPAs	LECTURE	
9.45 – 10.30	Underwater Visual Census (UVC): what this is and how it works	LECTURE	
BREAK			
11.00 – 11.45	Baited underwater video (BUV): what this is and how it works	LECTURE	
11.45 – 12.30	FishMPABlue 2 approach for ecological assessment: methods and main results	LECTURE	
LUNCH Break			
14.30 – 16.30	Species identification: main coastal	LECTURE	

	families and species of the Mediterranean Sea		
16.30 – 17.00	Preparation to practical session: what we will do tomorrow in the field and logistic information	LECTURE	

### DAY 3

TIMING	ACTIVITY	TYPE and Lecturers	MATERIAL NEEDED
8.00 AM – 8.30	Rendezvous for the practical UVC session on the field at the port		
8.30 – 9.00	Briefing on the activity	PRACTICAL SESSION (FIELD ACTIVITY)	
9.00 – 16.00	Field activity: practical session on UVC. Participants will be divided in groups of 3-4 persons, each guided by an expert.	PRACTICAL SESSION (FIELD ACTIVITY)	Diving/snorkeling equipment

### DAY 4

TIMING	ACTIVITY	TYPE and Lecturers	MATERIAL NEEDED
8.00 AM – 8.30	Rendezvous for the practical BUV session on the field at the port		
8.30 – 9.00	Briefing on the activity	PRACTICAL SESSION (FIELD ACTIVITY)	
9.00 – 12.00	Field activity: practical session on BUV. Participants will be divided into 2 groups, each guided by an expert.	PRACTICAL SESSION (FIELD ACTIVITY)	
LUNCH			

14.30 – 18.00	Practical session on data extraction and analysis - Participants will be divided in groups of 3-4 persons and will work on the UVC and BUV data they collected in field	PRACTICAL SESSION (DATA MANAGEMENET AND ANALYSIS)	Participants should bring their own laptop for this activity
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## DAY 5

9.00 AM – 10.00	Economic assessment in MPAs – methods and brief results of FishMPABlue 2	LECTURE	
10.00 AM – 10.30	Guide to the practical session - Methodology of ssf monitoring in MPA: from photo-sampling to data analysis	LECTURE	
BREAK and preparation to field session			
10.45 AM – 13.00	Practical session for ssf data collection (photo-sampling)	PRACTICAL SESSION	Photo-camera or smartphone, rulers, notebooks, pens (beside smartphone, this material will be provided by organizers)
LUNCH			
15.00 – 18.00	Practical session on data extraction and analysis - Participants will be divided in groups of 3-4 persons and will work on the data they collected in the morning	PRACTICAL SESSION	Participants should bring their own laptop for this activity

## DAY 6

TIMING	ACTIVITY	TYPE and Lecturers	MATERIAL NEEDED
9.00 AM – 10.30	Social assessment in MPAs – Approach, methods and brief results from Fish2	LECTURE	
BREAK			
11.00 – 13.00	Summer-school wrap-up, delivery of certificates of attendance and closure	CLOSURE	
LUNCH			
13.00 – 18.00	Free afternoon/Field excursion		

DAY 7: participants' travel back

The final agenda will be issued in the following months and shared with the participants in advance, together with some useful readings and material to consult before the summer school.