

FAIRSEA (ID 10046951)

“Fisheries in the Adriatic Region - a Shared Ecosystem Approach”

D 2.4.2 Secondary school and seminar series

Work Package:	WP: WP2 - Communication activities Activity: Act 2.4 - Events
Type of Document	Report of the Secondary school and university seminar series were organized. The aim of seminars was to increase knowledge of youngest generations on the ecosystem approach and sustainable exploitation of marine resources.
Use	Public
Responsible PP	SUNCE
Authors	Tina Disopra, Tea Kuzmičić [PP8-SUNCE], K. Bozanic Svilicic [PP01-IOF], Svjetlana Krstulović Šifner [PP10-UNIST], Francesca Petrera [LP-OGS]
Version and date	Version: Final version , June 2020

D 2.4.2 Secondary school and seminar series

FAIRSEA – Fisheries in the Adriatic Region – a shared Ecosystem Approach

FAIRSEA is financed by Interreg V-A IT-HR CBC Programme (Priority Axis 1 – Blue innovation)

Start date: 01 January 2019

End date: 28 February 2021

Acronyms used

AB	Advisory Board
CFP	Common Fisheries Policy
EAF	Ecosystem Approach to Fisheries
EAFM	Ecosystem Approach to Fisheries Management
FAIRSEA	Fisheries in the Adriatic Region – a Shared Ecosystem Approach
FS	Factsheet
JS	Joint Secretariat
LP	Lead Partner
MA	Managing Authority
OGS	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS
PA	Partnership Agreement
PC	Project Coordinator
PM	Project Manager
PMU	Project Management Unit
PP	Project Partner
SC	Subsidy Contract
SC	Steering Committee
TC	Technical Committee
WP	Work packages

INTRODUCTION

The FAIRSEA project aims at enhancing transnational capacity and cooperation in the field of an ecosystem approach to fisheries in the Adriatic region by exchanging knowledge and sharing good practices among partners. The complementary expertise of the partners is shared, interlinked and integrated, considering also challenges and opportunities identified by stakeholders. The best way to reach sustainability, in fact, is to ensure stakeholders' participation in the process that requires time, trust, transparency and efficient steering. The efforts are embedded in a spatially explicit management platform that will allow to share expertise, create a common pool of knowledge, boost the operational application of the ecosystem approach to fisheries, enhance the competence in complex system dynamics, and foster a consensus on the state of the environment and fisheries in the region.

The collective development of the integrated platform will enhance partners' expertise on an approach seldom carried out in the Mediterranean Sea. The platform will result in a spatially explicit dynamic tool, integrating cornerstone elements for an ecosystem approach to fisheries that are: water masses circulation and connectivity (module HYDRO), biogeochemical planktonic processes (BGC), distribution of resources (BSTAT), catch and fleet statistics (FSTAT), effort distribution (EFFORT), bioeconomic responses (BIOECO) and food web dynamics (FWM). The attention to the spatial components in the distribution of the resources, the variability of the oceanographic condition, the management policies and the socio-economic impact is a particularly innovative and extremely valuable aspect. The shared integrated platform will be used as a planning tool to implement demonstrative testing of applicable fisheries policies both at local (subareas) and whole Adriatic scales. Especially, it will provide a scientific basis to formulate and evaluate shared management advice in the local and international participatory processes, answering to the need of reference points knowledge for the optimisation between ecological and socio-economical sustainability. The process developed in FAIRSEA will provide an opportunity to describe best practices and define guidelines for a sustainable fishery management. The integrated platform will result in a product that constitutes the basis for a science-based decision support tool and a preliminary step towards the future development of multiannual fishery management plans.

Project specific objective 1: Enhance transboundary integrated competence in the field of ecosystem approach to fisheries

Enhance the transnational competencies and skills in the field of EAF in all network's members, by crossing and pooling resources and complementary expertise, exchanging and integrating knowledge and sharing the results. The goal is to develop a territorially integrated conceptualization of the EAF beyond existing differences and boundaries, and to strengthen and structure a network for future transnational plans, useful in the framework of the Common Fisheries Policy (CFP). This will result in reinforcing cohesion and encourage identification and adoption of economic optimal strategies.

Project specific objective 2: Implement a shared “state of the art” integrated platform for the region

Develop an operational spatially explicit platform that integrates the dynamics of water masses and primary production patterns, main components of the ecosystem in terms of target species and their food, main fisheries spatio-temporal dynamics, also accounting for socio-economic impacts. The tool will result from a novel integration of existing information and numerical approaches applied in the Adriatic basin (GSA17 and GSA18). The FAIRSEA integrated platform will permit testing different exemplificative policies that will be analysed and presented to stakeholders and policy makers for a joint discussion.

Project specific objective 3: Share benefits and challenges of ecosystem approach to facilitate the achievement of CFP objectives

Implement participatory processes for sharing the integrated conceptualization of the ecosystem approach to fisheries and the insights obtained from pilot applications. Project process enhances collaborative and participated definition of policies to be tested, also through the involvement of a wide range of key stakeholders. The production of guidelines and best practices for transnational integrated frameworks useful for an ecosystem approach to fisheries is another aim of FAIRSEA. Another objective is transferring at different levels and to different groups the potentialities and the difficulties of the approach, in order to increase its further development in the region and outside the region.

Specific objectives of the school seminars and workshops (act. 2.4.2)

The overall objective of FAIRSEA is to enhance the conditions for implementing innovative approaches in the sector of sustainable fisheries management in the Adriatic Sea. Thus, other than the scientific development of a shared conceptual and operational framework for an Ecosystem Approach to Fisheries (EAF), adapted to address stakeholders' and policy makers' issues, **the integrated efforts of the project are used for increasing awareness in the field of EAF**, for improving technical skills and capacities in the region also through demonstrative applications.

In order to increase awareness in the CBC Programme area on EAF and create an impact that will last beyond the end of the project, seminars and activities will be prepared and disseminated during opportune events at schools and universities. The seminars will be used to increase the awareness of the younger generations on what is fishing, the large complexity of species targeted by exploitations, what is the impact on marine ecosystem processes induced by fishing, but also what is the complexity of fisheries techniques.

Seminars will be organised in each semester at secondary schools and Universities in both countries with the aim of increasing knowledge of youngest generations on the ecosystem approach and sustainable exploitation of marine resources. This report synthesizes the activities carried out in Act. 2.4.2 in the third semester of the project (January-June 2020).

Activities in Croatia

PP SUNCE organized theoretical, practical, and field trip workshops for students from high schools from Split and students from several faculties of the University of Split. The theoretical workshops introduced the students about project's main goals and achievements. The aim of the workshop was to increase the students' knowledge about fisheries and the current situation of fish stock in the Adriatic Sea. On the field trip we visited *Fishery Cooperative Adria Tribunj* and the *Fish farm Zečevo*. On the practical workshop the students played *Play decide game* with the theme Ecosystem approach to fisheries and *Food web card game*.

The report contains: the program of the theoretical, practical, and field trip workshops, and photos.

Theoretical workshop

1. Theoretical workshop (duration 2 hours)

- Introduction (About FAIRSEA project)- Sunce
- Fisheries in the Adriatic region, challenges, sustainable fisheries – IOF
- Instruction for field trip

V. Gymnasium Vladimir Nazor Split



Split Tourist School



Economic and administrative school Split



High school of sustainable development, Split



University of Split – Biology and technology (Marine studies)



Field trip workshop

Vrijeme	Aktivnost
8:00	Okupljanje učenika ispred škole
8:00 – 9:45	Putovanje prema Tribunju
9:45 – 10:15	Dolazak i vrijeme za odmor
10:15 – 12:00	Upoznavanje s Ribarskom lukom Tribunj i Predavanje ribara uz obilazak broda. Obilazak postrojenja i upoznavanje s radom Ribarske zadruge Adria.
12:15 – 13:00	Slobodno vrijeme
13:00 – 14:15	Pauza za ručak i polazak prema ribogojilištu
14:15 – 15:30	Putovanje prema ribogojilištu
15:30 – 16:30	Razgled ribogojilišta Klismar
16:30 – 18:00	Povratak u Split

University of Split – Biology and technology (Marine studies)



Economic and administrative school Split



High school of sustainable development, Split



Practical workshop

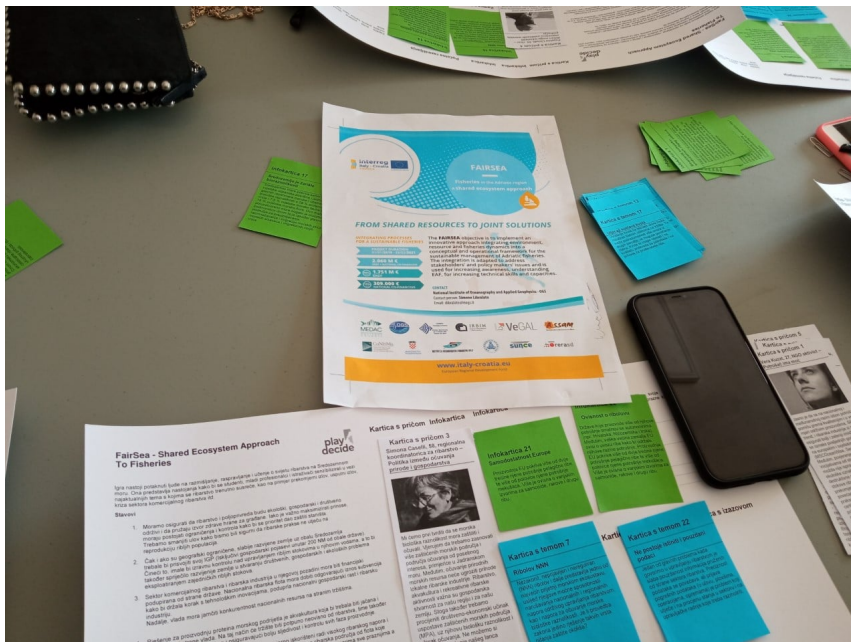
Vrijeme	Aktivnost
10:30	Okupljanje sudionika
10:30 – 10:45	Uvod u igru pravila/raspored u grupe
10:45 – 11:45	Food web card game
11:45 – 12:45	Pauza za marendu/kavu (osigurava Udruga Sunce)
12:45 – 13:00	Uvod u igru/pravila/raspored u grupe
13:00 – 14:00	Play decide game
14:00 – 14:30	Podijela diploma i nagrada za sudjelovanje

Youth seminar in Split





Economic and administrative school Split





High school of sustainable development, Split



Teoretical workshop							
Projekt	Voditelj radionice	Tema	Škola sudionik	Profesor	Datum		Broj sudionika
FAIRSEA	Tea Kuzmičić Rosandić	O projektu FAIRSEA i Trenutno stanje recentnih vrsta u Jadranskom moru	Gimnazija održivog razvoja Split	Darija Čerdić Vukušić	04.11.2019.	Split	8
FAIRSEA	Tea Kuzmičić Rosandić	O projektu FAIRSEA i Trenutno stanje recentnih vrsta u Jadranskom moru	Ekonomsko-Upravna škola Split	Anita Kružičević	05.11.2019.	Split	13
FAIRSEA	Tea Kuzmičić Rosandić	O projektu FAIRSEA i Trenutno stanje recentnih vrsta u Jadranskom moru	Sveučilište u Splitu-Odjel za studije mora	Svijetlana Krstulović-Šifner	12.11.2019.	Split	24
FAIRSEA	Tea Kuzmičić Rosandić	O projektu FAIRSEA i Trenutno stanje recentnih vrsta u Jadranskom moru	Gimnazija Vladimir Nazor	Josip Kostović	02.03.2020.	Split	22
FAIRSEA	Tea Kuzmičić Rosandić	O projektu FAIRSEA i Trenutno stanje recentnih vrsta u Jadranskom moru	Hoteljersko turistička škola Split		28.02.2020.	Split	9
Field trip							
FAIRSEA	Tea Kuzmičić Rosandić	RZ Adria Tribunj, Uzgajalište Klisamar	Učenici Gimnazije održivog razvoja	Darija Čerdić Vukušić	09.10.2020.	Tribunj	13
FAIRSEA	Tea Kuzmičić Rosandić	RZ Adria Tribunj, Uzgajalište Klisamar	Učenici ekonomske i Upravne škole	Anita Kružičević	20.10.2020.	Tribunj	15
FAIRSEA	Tea Kuzmičić Rosandić	RZ Adria Tribunj, Uzgajalište Klisamar	Učenici ekonomske i Upravne škole	Ivana Matić	29.05.2021.	Tribunj	19
FAIRSEA	Tea Kuzmičić Rosandić	RZ Adria Tribunj, Uzgajalište Klisamar	UNIST Odjel za studije mora	/	09.06.2021.	Tribunj	21
FAIRSEA	Tea Kuzmičić Rosandić	RZ Adria Tribunj, Uzgajalište Klisamar	UNIST Odjel za studije mora	/	10.06.2021.	Tribunj	14
Practical workshop							
FAIRSEA	Tea Kuzmičić Rosandić	Discouision game	Studenti različitih fakulteta	/	07.03.2019.	Split	9
FAIRSEA	Tea Kuzmičić Rosandić	Discouision game and Food web card game	Gimnazija održivog razvoja Split	Darija Čerdić Vukušić	26.02.2021.	Split	17
FAIRSEA	Tea Kuzmičić Rosandić	Discouision game and Food web card game	Ekonomsko-Upravna škola Split	Anita Kružičević	11.03.2021.	Split	14
FAIRSEA	Katarina Božanić sviličić	Food web card game	OŠ A.M.Karanameo	/	04.06.2021.	Vis	8
FAIRSEA		Second advanced school	Students and project partners	/	26.06.2021.	Split-Hvar-Split	17

Activites in Italy: seminar at UTLE

LP-OGS presented FAIRSEA project at a public event organized at UTLE Fiumana in Fiume Veneto on 6th February 2020. One presentation to five classrooms was presented to of a secondary school and university of the third age



Figure 4 Photo



Figure 5 Photo

Participants

The list of participants is not available for the UTLE-Fiumana school seminar, but was estimated that more than 170 people participated to the event. The participants were composed by 4 classes of secondary school and more than 80 adults belonging to the University (including teachers and other UTLE personel). From photos it can be easily evidenced the large public at the event.

Agenda

giovedì 06 febbraio 2020 ore 15.00
presso Aula Magna della Casa dello Studente di Fiume Veneto

Incontro promosso da UTLE e OGS sulla gestione sostenibile degli ecosistemi marini

Ore 15:00-15:10 **Introduzione ai lavori:** Emanuela Mucignat (UTLE)

Ore 15:00- 16:00 **Ecosistemi marini rischi e cambiamenti.** Davide Agnetta (OGS)

Ore 16:00- 16:30 **Domande e approfondimenti**

Achievements

The large group of attendants was also showing great degree of participation and interest in the arguments presented. These included the effects of fisheries and climatic changes on marine resources. The teacher was having a long series of questions both from the young group of participants and the rest. The attendants were deeply interested in following the updates on the project development.

Seminar series

A series of seminars were given in the framework of activity 2.4.2 during project development.

Istituto d'Istruzione Superiore Remo Brindisi, 18 November 2020

(online)

Title: "FAIRSEA: uno strumento integrato a supporto della gestione della pesca" by S. Libralato

Number of participants: 10 students

Istituto Comprensivo di Lido e Pellestrina «Franca Ongaro», 14 January 2021

(online)

Title: "Sostenibilità della pesca" by S. Libralato [LP-OGS]

Number of participants: 20 students

Association MAREVIVO, after school for students at Adriaco Yatch club, 30 August 2021.

(in presence)

Title: "Il mare nel piatto: alla scoperta della catena trofica" by S. Libralato

Number of participants: 20 students