

# CoAStal and marine waters integrated monitoring systems for ecosystems proteCtion AnD managemEnt CASCADE

Project ID: 10255941

**Priority Axis: Environment and cultural heritage** 

Specific objective: Improve the environmental quality conditions of the sea and coastal area by use of sustainable and innovative technologies and approaches

### D2.4.5

Local events (about a total of n. 10 guided tours, n. 10 laboratories, n. 10 seminaries, n. 10 workshops, n. 5 scientific training)

PP in charge: All PPs

Report of Workshops – part 4

Final version

Public document

June, 2023



Project acronym	CASCADE
Project ID number	10255941
Project title	CoAStal and marine waters integrated monitoring systems for
	ecosystems protection AnD managemEnt
Priority axis	3 - Environment and cultural heritage
Specific objective	3.2 - Contribute to protect and restore biodiversity
Strategic theme	3.2.1 - Marine environment
Word Package	WP2
number	
Word Package title	Communication activities
Activity number	Activity 2.4
Activity title	Events, Training and Workshops
Partner in charge	All PPs
Partners involved	All PPs



## CoAStal and marine waters integrated monitoring systems for ecosystems proteCtion AnD managemEnt CASCADE

Priority Axis: Environment and cultural heritage

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Work Package:	Indicate if:
	2. Communication activities
	5. Pilots for endangered species restoration and Integrated
	coastal/marine management system
Activity	Indicate if:
	<b>2.4</b> – Events, Training and <b>Workshops</b>
	5.2 - Restoration actions supporting endangered species
	5.3 – Integrated coastal/marine management systems
	5.4 - Ocean literacy toolkit and events
Deliverable:	Indicate if:
	2.4.3 - Cross-border event
	2.4.4 - Summer school
	<b>2.4.5</b> - <b>Local events</b> : organized events as defined in the AF (guided tours,
	laboratories, seminaries, <u>workshops,</u> scientific training) and external
	events. In this deliverable both organized meetings and external events
	attended by PPs must be included
	5.2.1 - Organization of at least 2 workshops (also virtual) for each Pilot for
	stakeholders engagement (at least 15 participants for each workshop) and
	capacity building on restoration actions supporting endangered species
	5.3.2 - Organization of at least 2 workshops (also virtual) for each Pilot for
	stakeholders engagement (at least 15 for each workshop) and capacity
	building on integrated coastal/marine management systems
	5.4.2 - Ocean literacy events: online and in presence events will provide
	opportunities to present the essential scientific principles and info, to
	interact and to dialogue with experts
	5.4.3 - Local events (guided tours and scuba diving for general public for
	scientific, tourist and recreational purposes; Laboratories and didactical
	activities for schools)

Project Partner:	Indicate partner number and name; Public Institution Sea and Karst	
Name of event:	Workshop	
Date:	May 20 <sup>th</sup> , 2021	
Event type:	Specify the type of event (i.e., guided tour, laboratory, seminary, workshop, scientific training, conference, etc.) Specify if external or organized event	
Event venue:	Specify the venue for in presence events – City of Omiš, city beach, elementary school Josip Pupačić or indicate online	
Short description of the event:	A workshop was held for 5th and 7th grade children, J.Pupačić elementary school. The lectures covered the pilot area of the project, the ecosystem of the	



	Cetina estuary, the marine ecosystem, and the impact of the people and the climate change on the biodiversity of the area. An underwater drone filmed the seabeds of the city beach, and the footage was viewed later at the school after a lecture on penshell.
Speakers speeches, brief summary and conclusion:	Jelena Kurtović, PI Sea and Karst – ecosystem of Cetina estuary, Natura 2000, the marine ecosystem, biodiversity of the area, protected and invasive species.  Branimir Jukić – PI Sea and Karst – filmed the seabeds of the city beach
	Josip Boban – Natural History Museum and zoo – Penshells, everything about them
Role of CASCADE partner in the event:	An organizer
Type of audience/target groups involved:	5 <sup>th</sup> and 7 <sup>th</sup> grade children of elementary school

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public		
Local, regional and national public authorities		
Associations		
NGOs		
Education and training organizations as well as universities and research institutes	Education organizations	5 <sup>th</sup> and 7 <sup>th</sup> grade children of elementary school

- Photos from events (it is preferable to have few photos where CASCADE logo is visible on presentation, poster, roll-up, promotional materials etc.),
- Screenshots, Invitation, Agenda, Minutes, Participation list (if available), Abstract, etc.

#### **Explanation:**

By the end of project, in LIBRARY and TOOL section of project website must upload:



- Reports of all meetings,
- Reports of all events organized (local events, etc.),
- Reports of participation in external events,
- PDF versions of promotional materials,
- Reports with links to websites, media relations and press releases issued.

#### **Photos**



















#### Promotional material





#### Agenda













TV show MORE – national TV, HRT – Tv report about our workshop in Omiš





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	5.2.1 - Organization of at least 2 workshops (also virtual) for each Pilot
	for stakeholders engagement (at least 15 participants for each
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	for stakeholders engagement (at least 15 for each workshop) and
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	opportunities to present the essential scientific principles and info, to
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	5.4.3 - Local events (guided tours and scuba diving for general public for
	scientific, tourist and recreational purposes; Laboratories and didactical
	activities for schools)

Project Partner:	Indicate partner number and name; Public Institution Sea and Karst
Name of event:	Workshop
Date:	April 5 <sup>th</sup> , 2022
Event type:	Specify the type of event (i.e., guided tour, laboratory, seminary, workshop, scientific training, conference, etc.) Specify if external or organized event
Event venue:	Specify the venue for in presence events — City of Omiš, city beach, elementary school Josip Pupačić
Short description of the event:	A workshop was held for 6th and 8th grade children, J.Pupačić elementary school. The lectures covered the pilot area of the project, the ecosystem of the



	Cetina estuary, the marine ecosystem, and the impact of the people and the climate change on the biodiversity of the area. An underwater drone filmed the seabeds of the city beach, and the footage was viewed later at the school after a lecture on penshell.
Speakers speeches, brief summary and conclusion:	Jelena Kurtović, PI Sea and Karst – ecosystem of Cetina estuary, Natura 2000, the marine ecosystem, biodiversity of the area, protected and invasive species.  Josip Boban – Natural History Museum and zoo – Penshells, everything about them
Role of CASCADE partner in the event:	An organizer
Type of audience/target groups involved:	6 <sup>th</sup> and 8 <sup>th</sup> grade children of elementary school

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public		
Local, regional and national public authorities		
Associations		
NGOs		
Education and training organizations as well as universities and research institutes	Education organizations	6 <sup>th</sup> and 8 <sup>th</sup> grade children of elementary school

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#### Promotional material





#### Agenda





5. travnja 2022.



OMIŠ

#### **AGENDA**

09:00h	Okupljanje kod kafića 3M na Velikoj gradskoj plaži, registracija, podjela promotivnih i edukativnih materijala
09:15h	Uvodno predavanje ispred edukativne ploče: ušće Cetine kao područje ekološke mreže Natura 2000, morski ekosustav pod utjecajem rijeke, karakteristične vrste s osvrtom na zaštićene i invazivne vrste. Ekologija ušća - hranidbeni lanac. Utjecaj klimatskih promjena na ekosustav ušća. Utjecaj čovjeka na ekosustav ušća.
10:00h	Potapanje podvodnog drona. Odlazak kod Plave zastave gdje je nekada bila najgušća populacija plemenite periske. Potapanje podvodnog drona, snimanje podmorja.
10:30h	Pauza za okrjepu i osvježenje
11:00h	Priča o plemenitoj perisci. Odlazak do učionice OŠ Josip Pupačić Omiš (suorganizator u sklopu Erasmus+ projekta Let's Go Out - Time to Move KA 101).
11:15h	Prikaz izgleda plemenite periske i uloge u ekosustavu. <b>Što smo naučili?</b> Pregledavanje snimke podvodnog drona, bilježenje vrsta na vodonepropusnu pločicu.
11:45h	Zajednička fotografija sudionika iz zraka

European Regional Development Fund















## CoAStal and marine waters integrated monitoring systems for ecosystems proteCtion AnD managemEnt CASCADE

Priority Axis: Environment and cultural heritage

Specific objective: Improve the environmental quality conditions of the sea and coastal area by use of sustainable and innovative technologies and approaches



Work Package:	2. Communication activities
Activity	2.4 - Events, Training and Workshops
Deliverable:	D2.4.5 [PP in charge: all PPs, delivery: M1-M36] local events (about a total of n. 10 guided tours, n. 10 laboratories, n. 10 seminaries, n. 10 workshops, n. 5 scientific training)

Project Partner:	PP6 University of Bologna – PP7 Arpae	
Name of event:	NORTH ADRIATIC SEA COASTAL AREAS MANAGEMENT	
Date:	02.07.2022	
Event type:	Workshop in presence with lectures from CASCADE participants	
Event venue:	Hall of the Goro City council	
Short description of the event:	Workshop on the results of the study performed in the frame of the Italia-Croatia CASCADE project dealing with the characterization and management of the North Adriatic coastal and marine environments, with special emphasis on Natura 2000 sites; the event was followed by a naturalistic walking in the Goro coastal area.	
Speakers speeches, brief summary and conclusion:	The workshop started at 11 am of July 2 <sup>nd</sup> 2022 in the hall of the city council and lasted until 13,30.	
	The CASCADE project coordinator and the leader of the WP related to local events' organization (DELTA2000 partner) could not be present so that CASCADE project was introduced by one of the leaders of the Operative Units in charge with the organization of the workshop. Prof. Rossella Pistocchi briefly illustrated to the public the aim and main characteristics of the project and how all the project is based on integration of biotic and abiotic data, on collaboration between public administrations and research centers as well as between the two participating countries.  One invited person from the Regional Body of Delta Po River Park, Dr. Francesco Goggi, gave a speech on Coastal areas species as naturalistic heritage, talking about the importance of the protected fauna present in the whole area of the Po river delta and the role of Natura 2000 areas.  Dr. Riccardo Bentivogli from UNIBO talked about the importance of Goro Lagoon and Lago delle Nazioni as hotspot for studies related to phytoplankton. He illustrated the application, within the project, of new methods for water monitoring based one on the identification of microorganisms through the analysis of the whole population DNA, the	



	other on surveys performed by means of a drone equipped with a hyperspectral camera.
	Prof. Massimo Ponti from UNIBO talked about the surveys performed in the Sacca di Goro related to benthic populations and compared it with surveys performed 20 years ago, as indicative of a diminution of biodiversity.
	Dr. Jacopo Alessandri who collaborates with ARPAE and with UNIBO in a modellistic study performed during his PhD thesis, illustrated the work at the basis of the methods now applied for the realization of the CASCADE modellization.
	Dr. Davide De Battisti from University of Padoa did a speech in the place of Laura Airoldi (CASCADE participant) who could not be present; having an international experience on restoration thematics, he spoke about the study performed in CASCADE on the presence and distribution of different species of Spartina (Poaceae) and on the methods applied and the responses obtained in restoration attempts.
Role of CASCADE partner in the event:	The workshop has been organized by partners Unibo and Arpae. With the exception of the introductive speeches, the other talks illustrated results obtained in the course of the project.
Type of audience/target groups involved:	n. 8 people as representative of CASCADE partners projects Other stakeholders (not involved as partner in the project) as detailed in the table below. Total participants n. 38

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	12	People from local companies (mainly aquaculture), Free press, local people
Local, regional and national public authorities	3	Goro municipality, Regional Body of Po River Park
Associations	2	Fishery association, Legacoop
NGOs		
Education and training organizations as well	12	8 professors and graduated students from UNIBO, 1 from University of Messina, 1 from University of Padoa, 1 from University of Ferrara, 3 from ARPAE



as universities and	
research institutes	

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www.italy-croatia.eu/cascade

# ~ adriatic seaside festival ~



#### LA GESTIONE DELLE AREE DI TRANSIZIONE DEL NORD ADRIATICO

NORTH ADRIATIC SEA COASTAL AREAS MANAGEMENT

Goro, Sala del Consiglio comunale, 2 Luglio 2022 Moderano: Rossella Pistocchi (UNIBO), Andrea Valentini (ARPAE)

- 11.00 Introduzione al progetto INTERREG "CoAStal and marine waters integrated monitoring systems for Ecosystems proteCtion AnD managemEnt" (CASCADE)
  Valentina De Pinto (Regione Puglia), Mauro Conficoni (DELTA2000)
- 11.20 Le specie delle aree costiere come patrimonio naturalistico Coastal areas species as naturalistic heritage Francesco Goggi (Ente Parco del Delta del Po)
- 11.40 Il FLAG Costa dell'Emilia Romagna Vadis Paesanti
- 11.50 Nuove tecniche di monitoraggio integrato del fitoplancton per la gestione degli ecosistemi costieri Innovative phytoplankton integrated monitoring techniques for coastal ecosystems management

  Riccardo Bentivogli, Nicolè Caputo, Laura Pezzolesi, Franca Guerrini, Sonia Silvestri, Beatrice M.S. Giambastiani, Federica Costantini, Rossella Pistocchi (UNIBO)
- 12.10 I popolamenti dei fondali della Sacca di Goro Benthic assemblages in the Goro lagoon Massimo Ponti, Marina A. Colangelo (UNIBO)
- 12.30 Un modello per la gestione delle dinamiche della Sacca di Goro
   A model for the management of the Goro lagoon's dynamics
   Jacopo Alessandri, Marco Zavatarelli, Roberto Arcamone (UNIBO), Luis Germano Biolchi, Silvia Unguendoli, Andrea Valentini (Arpae), Georg Umgiesser, Christian Ferrarin (CNR-ISMAR), Ivan Federico (CMCC)
- 12.50 Distribuzione di Spartina spp. e risposte a interventi di ripristino dell'ambiente di barena Spartina spp. distribution and response to salt marshes restoration

  Davide De Battisti, Laura Airoldi (UNIBO UNIPD)
- 13.10 Conclusioni





Adriatic sea... let's care!







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Work Package:	Indicate if:	
	2. Communication activities	
Activity	Indicate if:	
	2.4 – Events, Training and Workshops	
Deliverable:	Indicate if:	
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Project Partner:	Institute of oceanography and fisheries		
Name of event:	Control of health safety of shellfish of the Croatian Adriatic		
Date:	10.05.2022		
Event type:	Workshop		
	Organized event		
Event venue:	In presence		
Short description of the event:	Scientist from IOR, gave a lecture entitled "Control of health safety of shellfish of the Croatian Adriatic" on shellfish poisoning to elementary school students from fifth to eighth grade on 10/05/2022.		
Speakers speeches, brief summary and conclusion:	Mr. sc. Romana Roje-Busatto, scientist of the IOR, gave a lecture entitled "Control of health safety of shellfish of the Croatian Adriatic" on shellfish poisoning to elementary school students from fifth to eighth grade on 10/05/2022. On this occasion, they learned how to recognize the signs of poisoning and how to react in case of poisoning. They also learned why it is important to keep the sea clean and what types of marine organisms are protected.		
Role of CASCADE partner in the event:	The Institute of Oceanography and Fisheries held a workshop " Control of health safety of shellfish of the Croatian Adriatic" with school children.		
Type of audience/target groups involved:	School children		

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public		
Local, regional and national public		



authorities		
Associations		
NGOs		
Education and training organizations as well as universities and research institutes	220	School children

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#### Annexe 1:

Photos from workshop







