

2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

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

D5.3.2

Definition of guidelines and template for the 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 integrated coastal/marine management systems

PP in charge: PP8 – Delta 2000

Part 3

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 number	WP5
Word Package title	Pilots for endangered species restoration and Integrated coastal/marine management system
Activity number	Activity 5.3
Activity title	Integrated coastal/marine management systems
Partner in charge	PP8 – Delta 2000
Partners involved	All PPS

2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**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

**Event follow up report WORKSHOP
5.3 - Integrated coastal/marine
management systems**



Work Package:	<i>5. Pilots for endangered species restoration and Integrated coastal/marine management system</i>
Activity	<i>5.3 - Integrated coastal/marine management systems</i>
Deliverable:	<i>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</i>

Project Partner:	<i>University of Molise (PP13)</i>
Name of event:	Sistemi di gestione integrata degli ecosistemi costieri- Pilot 7 Costa Molisana
Date:	07/10/2022 – 11:30
Event type:	<i>workshop</i>
Event venue:	Costa Molisana – Campomarino Lido – e Petacciato
Short description of the event:	<p>Nel contesto del progetto Progetto CASCADE (INTERREG V-A Italy), UNIMOL (ENVIXLAB), organizza un workshop sulla gestione integrata dei sistemi costieri</p> <p>Le attività si sono svolte il giorno venerdì 7 ottobre 2022, ore 15:00 ed ha coinvolto diversi esperti</p> <p>Durante l’incontro svolto alcune aree di recupero sulla Foce del Biferno si svolgono diverse attività:</p> <ul style="list-style-type: none"> – Spiegazione in dettaglio delle motivazioni e modalità di implementazione di azioni di recupero messe in atto sulle aree umide della foce del Biferno – Training sulle attività di monitoraggio della biodiversità in questi ecosistemi su flora, fauna e vegetazione.
Speakers speeches, brief summary and conclusion:	Maria Laura Carranza, Micaela Rasino, rappresentanti del Arsarp Molise (Agenzia Regionale per lo Sviluppo Agricolo, Rurale e della Pesca), Francesco Tozzi, Michele Innangi
Role of CASCADE partner in the event:	Organizer
Type of audience/target groups involved:	<p>Studenti di diversi livelli e pubblico in generale</p> <p>oltre 20 partecipanti</p>

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public		1
Local, regional and national public	1	ARSARP

authorities		
Associations	1	Ambiente basso Molise
NGOs		
Education and training organizations as well as universities and research institutes	Studenti di grado, di laurea magistrale e di dottorato	Universita del Molise

Annexes:

- 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.



Sistemi di gestione integrata degli ecosistemi costieri

WORKSHOP



Venerdì 7 ottobre 2022, ore 11:30



Campomarino Lido e Foce del Biferno

11:30 Raduno presso lido di Campomarino

Attività programmate Workshop "Sistemi di gestione integrata degli ecosistemi costieri"

Durante l'incontro si svolgono diverse attività:

- Esempi di modelli di gestione integrata derivati dalle attività di osservazione in campo dal progetto INTERREG CASCADE
- Attività di *citizen science* come strumento di coinvolgimento ed incremento della consapevolezza della cittadinanza sulla gestione integrata delle coste. Esempio del database dedicato Wild coast CASCADE.

Le attività avrà la durata di circa tre ore.

Progetto CASCADE (CoAStal and marine waters integrated monitoring systems for ecosystems protection and management) - INTERREG V-A Italy-Croatia CBC 2014-2020
European Regional Development Fund



Partner associati:

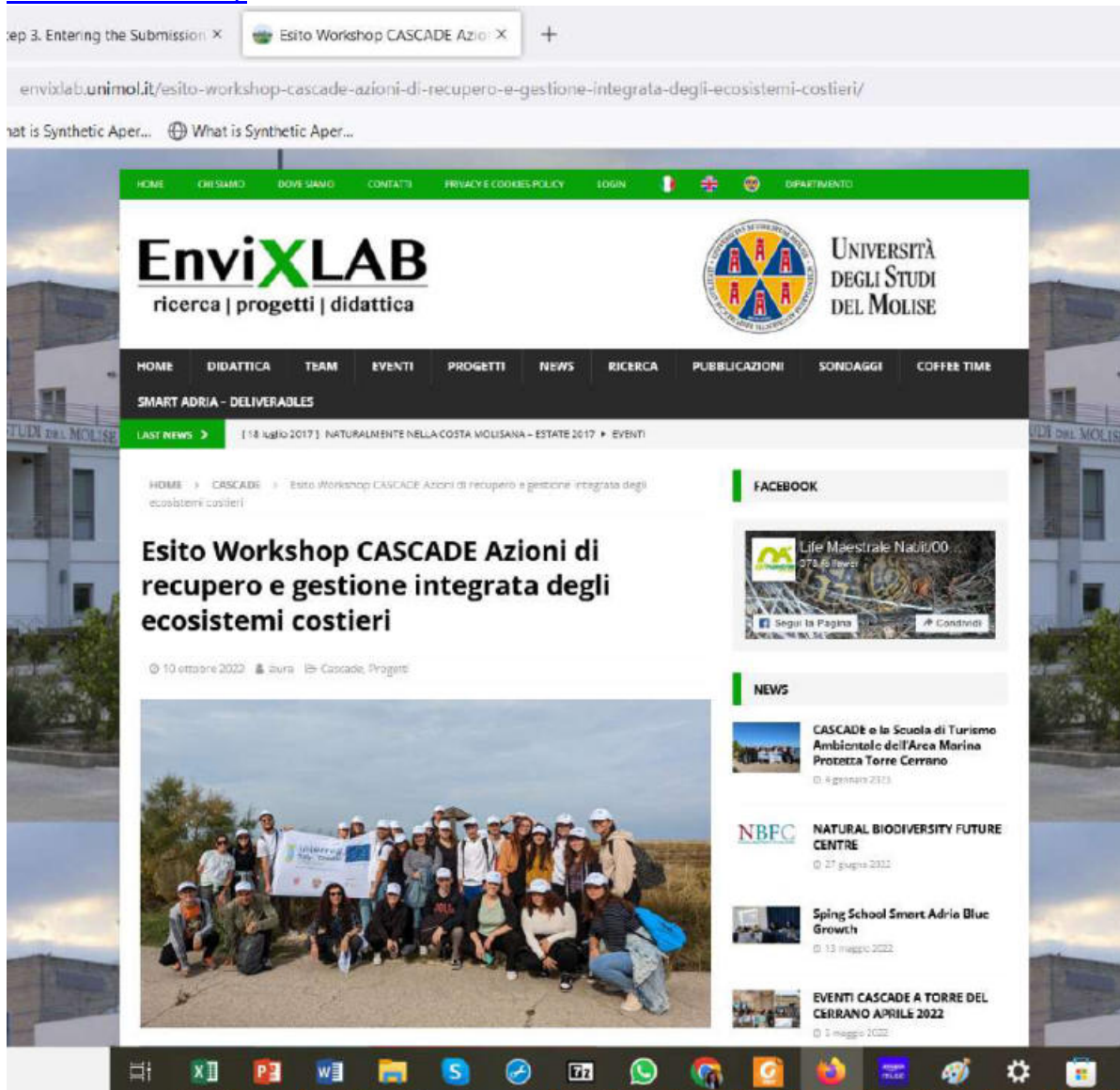






Link

<http://envixlab.unimol.it/esito-workshop-cascade-azioni-di-recupero-e-gestione-integrata-degli-ecosistemi-costieri/>



The screenshot shows a web browser window displaying the website for the 'Esito Workshop CASCADE Azioni di recupero e gestione integrata degli ecosistemi costieri'. The browser's address bar shows the URL: <http://envixlab.unimol.it/esito-workshop-cascade-azioni-di-recupero-e-gestione-integrata-degli-ecosistemi-costieri/>. The website header features the 'EnvixLAB' logo with the tagline 'ricerca | progetti | didattica' and the 'UNIVERSITÀ DEGLI STUDI DEL MOLISE' logo. A navigation menu includes links for HOME, DIDATTICA, TEAM, EVENTI, PROGETTI, NEWS, RICERCA, PUBBLICAZIONI, SONDAGGI, and COFFE TIME. Below the menu, a 'SMART ADRIA - DELIVERABLES' section is visible. The main content area displays the title 'Esito Workshop CASCADE Azioni di recupero e gestione integrata degli ecosistemi costieri' with a date of '10 ottobre 2022' and a category of 'Cascade, Progetti'. A large group photo of participants is shown below the title. On the right side, there is a 'FACEBOOK' section with a post for 'Life Maestrale Nauti'00' and a 'NEWS' section with three articles: 'CASCADE e la Scuola di Turismo Ambientale dell'Area Marina Protetta Torre Cerrano', 'NATURAL BIODIVERSITY FUTURE CENTRE', and 'Spring School Smart Adria Blue Growth'. The bottom of the screenshot shows a Windows taskbar with various application icons.

2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**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

**Event follow up report WORKSHOP
5.3 - Integrated coastal/marine
management systems**



Work Package:	<i>5. Pilots for endangered species restoration and Integrated coastal/marine management system</i>
Activity	<i>5.3 - Integrated coastal/marine management systems</i>
Deliverable:	<i>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</i>

Project Partner:	<i>University of Molise (PP13)</i>
Name of event:	Integrated coastal/marine management systems- Pilot 7 Molise Cost
Date:	07/10/2022 – 15:00
Event type:	<i>workshop</i>
Event venue:	Costa Molisana – Campomarino Lido – e Petacciato
Short description of the event:	In the context of the project Project CASCADE (INTERREG V-A Italy), UNIMOL (ENVIXLAB), organizes a workshop on integrated management of coastal systems
Speakers speeches, brief summary and conclusion:	Maria Laura Carranza, Micaela Rasino, rappresentanti del Arsarp Molise (Agenzia Regionale per lo Sviluppo Agricolo, Rurale e della Pesca), Francesco Tozzi, Michele innangi
Role of CASCADE partner in the event:	Organizer
Type of audience/target groups involved:	Students of different levels and general public Over 20 participants

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public		1
Local, regional and national public authorities	1	ARSARP
Associations	1	Ambiente basso Molise
NGOs		
Education and training	degree, master's degree	Universita del Molise

organizations as well as universities and research institutes	and doctoral degree students	
---	------------------------------	--

Annexes:

- 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.



Sistemi di gestione integrata degli ecosistemi costieri

WORKSHOP



Venerdì 7 ottobre 2022, ore 15:00



Campomarino Lido e Foce del Biferno

15:00 Raduno presso lido di Campomarino

Attività programmate Workshop "Sistemi di gestione integrata degli ecosistemi costieri"

Durante l'incontro si svolgono diverse attività:

- Spiegazione sulla importanza di identificare Sistemi di gestione integrata degli ecosistemi costieri, con particolare attenzione a delle azioni e proposte di gestione integrata delle coste dell'Adriatico Centrale
- Esempi di modelli di gestione integrata derivati dalle attività di osservazione in campo dal progetto INTERREG CASCADE
- Attività di *citizen science* come strumento di coinvolgimento ed incremento della consapevolezza della cittadinanza sulla gestione integrata delle coste. Esempio del database dedicato Wild coast CASCADE.

Le attività avrà la durata di circa tre ore.

Progetto CASCADE (CoAStal and marine waters integrated monitoring systems for ecosystems protection And management) - INTERREG V-A Italy-Croatia CBC 2014-2020 European Regional Development Fund



UNIVERSITÀ
DEGLI STUDI
DEL MOLISE

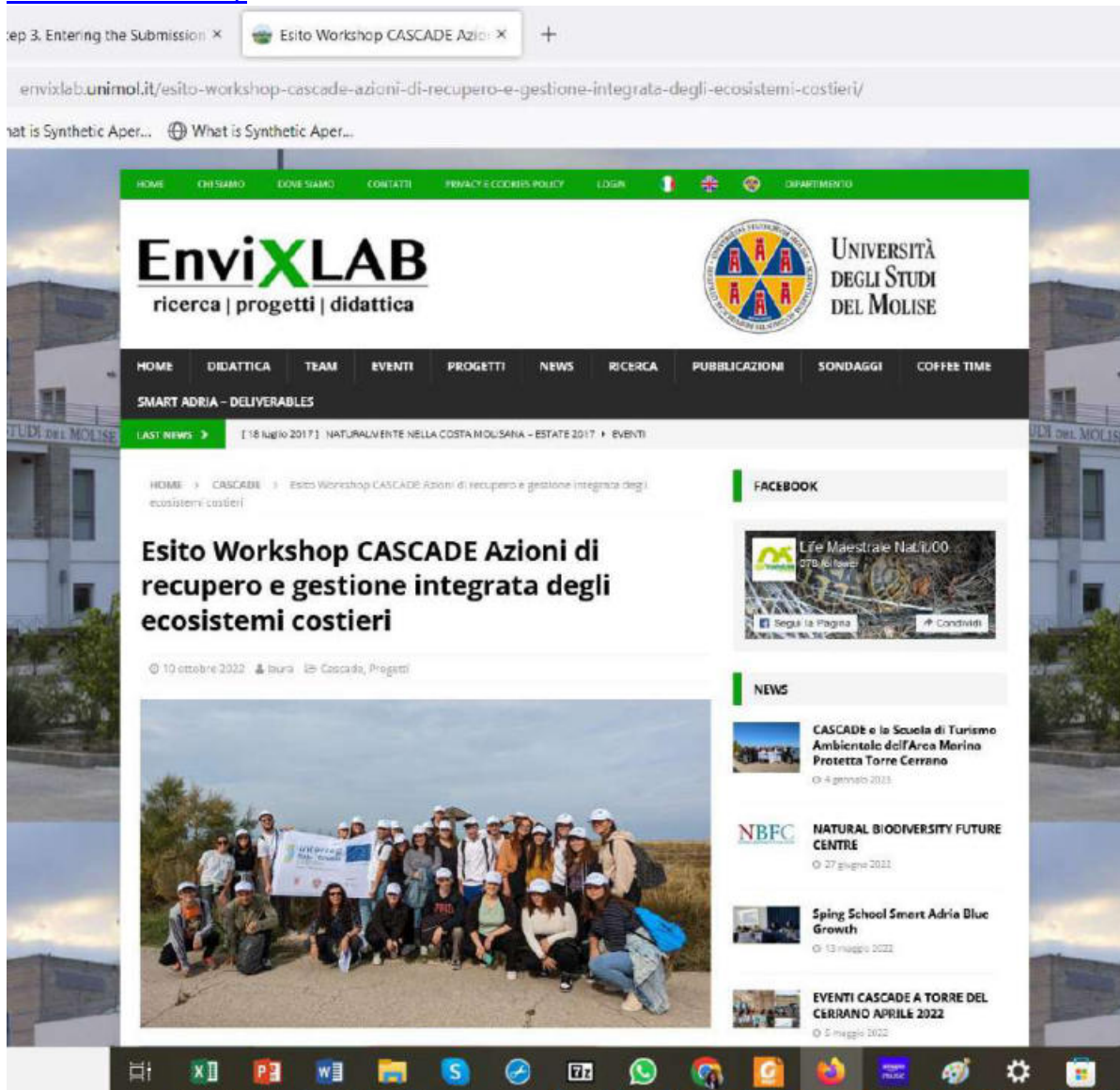
Partner associati:





Link

<http://envixlab.unimol.it/esito-workshop-cascade-azioni-di-recupero-e-gestione-integrata-degli-ecosistemi-costieri/>



2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**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

Event follow up report



Work Package:	5 Pilots for endangered species restoration and Integrated coastal/marine management system
Activity	Act 5.3./5.2 Integrated coastal/marine management systems
Deliverable:	D5.2.2. and D.5.3.2 [PP in charge: Delta2000; delivery: M36] 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.

Project Partner:	RBi Rudjer Boskovic Institute
Name of event:	Education and training organizations as well as universities and research institutes
Date:	10. 05. 2023
Event type:	2 Lectures and aquarium tour- External event
Event venue:	In presence – Center for marine research, Rudjer Boskovic institute Rovigno
Short description of the event:	49 participants on the project Erasmus So is(s)t Europe is a project of Mate Balota's agricultural school in cooperation with four other agricultural schools from Austria, the Czech Republic, Italy and Germany. The topic of the project is local food - its production, processing and marketing, as well as regional dishes that ended up at the table of farmers during and after work in the field. In Rovinj Center for Marine research students learned about local fisheries, fishing and changing biodiversity in the are and how the new and invasive species of fish and blu crad can be added to the table and consumed as new foods. Student visited Center for marine research Rudjer Bosković Institute on May 10 2023.
Speakers speeches, brief summary and conclusion:	The CASCADE team gave them 2 lectures and guided aquarium tour. Lana Grižančić gave them a lecture on center history and interreg projects CASCADE. Victor Stinga Perusco gave them a speech on fish and how fishing efforts changed in time, and about the new fish species introduced to the Adriatic SEA. Maria Fornažar, Ivan Vlašiček explain them the sampling activities and show them samples of microplastic on microscope and fito and zooplankton which are the main food for higher marine organisms in Aquarium of the Center for Marine Research, RBI for integrated costal management and monitoring.
Role of CASCADE partner in the event:	The lecture was aimed at publicizing the Institute history, local research themes and presentation of international projects the INTERREG project CASCADE. Focus was on biodiversity. Victor Stinga Perusco gave a lecture on fishing and invasive species. During the aquarium tour Maria Fornažar explained about the species inhabiting northern Adriatic with the emphasis to new invasive species, habitat loss ecc.

Type of audience/target groups involved:	The event involved teachers and students.
---	---

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
Education and training organizations as well as universities and research institutes	1	49 teachers and students from high school participated to the event

Annexes:

- 1_Photos of the 2 lecture and aquarium tour
- 2_list of the participants

Annex 1 Photos









2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**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

Event follow up report



Work Package:	5 Pilots for endangered species restoration and Integrated coastal/marine management system
Activity	Act 5.3./5.2 Integrated coastal/marine management systems
Deliverable:	D5.2.2. and D.5.3.2 [PP in charge: Delta2000; delivery: M36] 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.

Project Partner:	RBI Rudjer Boskovic Institute
Name of event:	Education and training organizations as well as universities and research institutes
Date:	05. 06. 2023
Event type:	1 Lectures and aquarium tour- External event
Event venue:	In presence – Center for marine research, Rudjer Boskovic institute Rovigno
Short description of the event:	15 participants on the school Matea Blažina visited Center for Marine Research. In Rovinj Center for Marine research students learned about local fisheries, fishing and changing biodiversity in the are and how the new and invasive species of fish and blu crad can be added to the table and consumed as new foods. Student visited Center for marine research Rudjer Bosković Institute on June 5 2023.
Speakers speeches, brief summary and conclusion:	The CASCADE team gave them 1 lectures and guided aquarium tour. Ivan Podolšak gave them a lecture on center history and interreg projects CASCADE. Victor Stinga Perusco and MariaFornažar gave them a speech on fish and how fishing effords changed in time, and about the new fish species introduced to the Adriatic SEA. They explained them the sampling activities and show them samples of microplastic on microscope and fito and zooplankton which are the main food for higher marine organisms in Aquarium of the Center for Marine Research, RBI for integrated costal management and monitoring.
Role of CASCADE partner in the event:	The lecture was aimed at publicizing the Institute history, local research themes and presentation of international projects the INTERREG project CASCADE. Focus was on biodiversity. Victor Stinga Perusco gave a lecture on fishing and invasive species. During the aquarium tour Maria Fornažar explained about the species inhabiting northern Adriatic with the emphasis to new invasive species, habitat loss ecc.
Type of audience/target groups involved:	The event involved teachers and students.

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
Education and training organizations as well as universities and research institutes	1	15 teachers and students from high school participated to the event

Annexes:

- 1_Photos of the 1 lecture and aquarium tour
- 2_list of the participants

Annex 1 Photos







List of the participants:

2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**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

Workshops follow up report

***WP 5 | Act. 5.2 Restoration actions supporting endangered species &
Act. 5.3 Integrated coastal/marine management systems***



Work Package:	<i>5. Pilots for endangered species restoration and Integrated coastal/marine management system</i>
Activity	<i>Indicate if: 5.2 - Restoration actions supporting endangered species 5.3 – Integrated coastal/marine management systems</i>
Deliverable:	<i>Indicate if: 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</i>

Project Partner:	PP 15 – Public Institution Sea and Karst
Name of event:	Presentation of the University of Split teaching bases
Date:	06.12.2022.
Event type:	Workshop
Event venue:	University of Split, amfiteatar A 1.2., Z3F
Short description of the event:	The event gathered together all University of Split teaching bases where students perform internship during their studies. On that occasion Public Institution Sea and Karst presented EU project CASCADE activities with special focus on restoration actions and integrated coastal and marine management of Cetina Estuary.
Speakers speeches, brief summary and conclusion:	<p>In this section, please for the workshop of D.5.2.1 and D.5.3.2 please include Information about;</p> <ol style="list-style-type: none"> Speakers and moderator, if present: Jelena Kurtović Mrčelić (project manager in PP15) presented CASCADE project activities with support of an PPT presentation called “Restoration actions supporting endangered species and Integrated coastal/marine management systems”. Information, knowledge and dissemination: Contents and themes presented and discussed with indication of speakers (name surname if possible) about: <ul style="list-style-type: none"> Presentation about the activities on topic of restoration actions supporting endangered species for act. D.5.2.1 Presentation about the activities on topic of integrated coastal/marine management systems for the D.5.3.1 <p>As through this WS we targeted researchers and students, the discussion was mainly about different methodologies and the possibilities for successful recovery of <i>Pinna nobilis</i> population. We had less discussion on integrated</p>

	<p>coastal zone management which will be discussed more during the next WS intended to local government.</p> <ol style="list-style-type: none"> 3. Inputs and suggestions by the stakeholders and participants, with a brief explanation about the inputs of stakeholders involved, their proposals, etc. Students are very interested in the work we carry out on Pinna nobilis. Right from the beginning they are involved in our CASCADE project activities. They offer support in larval collectors' installation and removal. They expressed their interest to continue supporting our work in 2023. 4. Evidence if the inputs and suggestions (point above) are been/will be taken into consideration and explain, if possible, why yes or why not. PP15 will involve University of Split students from the Department of maritime studies in conservation and restoration activities with Pinna nobilis. 5. Results and conclusions (what was worked out during the workshops and inputs in case for further or next activities). <p>Monitoring and restoration activities implemented through EU project CASCADE are of interest for the scientific community. They are strongly supporting achievement of Habitat directive provisions.</p>
Role of CASCADE partner in the event:	Presenter
Type of audience/target groups involved:	Students and professionals.

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	39	Students
Local, regional and national public authorities	-	
Associations	-	
NGOs	2	Association Sunce UNEP SPA/RAC

Education and training organizations as well as universities and research institutes	4	Institute of Oceanography and Fisheries Natural History Museum of Split University of Split, Department of marine studies
--	---	---

Annexes:

- 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.









Sveučilišni odjel za studije mora organizira **PREDSTAVLJANJE NASTAVNIH BAZA** Sveučilišnog odjela za studije mora Sveučilišta u Splitu koje će se održati u **utorak 6. prosinca 2022. godine u amfiteatru A 1.2., Z3F, u 12:00 sati**. Predstavljanje je predviđeno za studente Odjela za studije mora koji se ovim putem mogu informirati o institucijama gdje mogu pronaći praksu, volontirati te se i potencijalno zaposliti.

AGENDA

Vrijeme	Nastavna baza	Predavač
12:05 – 12:15	<i>Udruga za prirodu, okoliš i održivi razvoj Sunce</i>	Margita Radman, <i>mag. biol. et oecol., voditeljica odjela za edukaciju i informiranje</i>
12:15 – 12:25	<i>Institut za oceanografiju i ribarstvo</i>	Leon Grubišić, <i>znanstveni savjetnik, voditelj laboratorija za akvakulturu</i>
12:25 – 12:35	<i>Prirodoslovni muzej i zoološki vrt</i>	Josip Boban, <i>mag. biol. et oecol., viši kustos</i>
12:35 – 12:45	<i>Centar za regionalne aktivnosti Programa prioritarnih akcija Mediteranskog akcijskog plana PAP-RAC</i>	Ivan Sekovski, <i>dr. sc., voditelj programa</i>
12:45 – 12:55	<i>Javna ustanova za upravljanje zaštićenim dijelovima prirode na području Splitsko-dalmatinske županije "More i krš" – projekti CASCADE</i>	Jelena Kurtović Mrčelić, <i>mag. biol. univ. spec. oecol. mar., viša savjetnica oceanograf</i>



2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**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

Workshops follow up report

***WP 5 | Act. 5.2 Restoration actions supporting endangered species &
Act. 5.3 Integrated coastal/marine management systems***



Work Package:	<i>5. Pilots for endangered species restoration and Integrated coastal/marine management system</i>
Activity	<i>Indicate if: 5.2 - Restoration actions supporting endangered species 5.3 – Integrated coastal/marine management systems</i>
Deliverable:	<i>Indicate if: 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</i>

Project Partner:	<i>P9 – PP Sea and Karst</i>
Name of event:	<i>Presentation of the results of the EU project CASCADE for the area of ecological network Natura 2000 - Estuary of the Cetina River (HR3000126)</i>
Date:	<i>8th of May 2023</i>
Event type:	<i>Workshop – an organized event Specify if external or organized event</i>
Event venue:	<i>City of Omiš, Hotel Plaža</i>
Short description of the event:	<i>Implemented activities of monitoring and assessment of the state of key marine habitats and species were presented, with the aim of encouraging integrated management of the coastal zone and the underwater area of the Cetina estuary Natura 2000 site. In the past three years, starting from CASCADE project approval, Sea and Karst designed and tested monitoring program for Cetina estuary with focus on one of its most representative, key habitat types: 1110 Sandbanks which are slightly covered by the sea water all the time represented by two key benthic habitat formers: <i>Cymodocea nodosa</i> and <i>Pinna nobilis</i>. The purpose of the event was to familiarise local and regional authorities responsible for issuing permits for interventions in maritime domain with the state of natural values of the Cetina estuary and to discuss conservation measures.</i>
Speakers speeches, brief summary and conclusion:	<i>The programme of the event with speakers was following: 10:00 – 10:15 Introduction – natural values of the Cetina estuary, Jelena Kurtović Mrčelić, Sea and Karst 10:15 – 11:00 Monitoring and state of conservation of <i>Cymodocea nodosa</i> meadows, Silvija Kipson, Sea Fan Ltd and Branimir Radun, OIKON Ltd</i>

11:00 – 11:15 Monitoring and state of conservation of the Noble Pen shell *Pinna nobilis*, Jelena Kurtović Mrčelić, Sea and Karst

11:15 – 11:45 Coffee break

11:45 – 12:15 Monitoring and state of conservation of the coral reef *Cladocora caespitosa*, Silvija Kipson, Sea Fan Ltd

12:15 – 12:45 Monitoring the dynamics of sand in the area of Duće and Omiš municipalities and the role of marine flowering plants in the accumulation and movement of sediment, Kristina Pikelj, PMF Zagreb

12:45 – 13:30 Conservation measures and discussion

All speakers presented results of monitoring programmes carried out thanks to CASCADE project financial support. Details all of the monitoring programmes, including their setting-up and testing are available in CASCADE project reports such as D 3.3.1 Report on design the optimal observing system for marine coastal environment characterization and D 4.1.2 In situ observing campaigns. These programmes were complemented by presentation of Kristina Pikelj from the Faculty of Science, Zagreb which has long experience on monitoring sediment of beaches including those of Cetina estuary area. Sea and Karst also presented restoration actions supporting critically endangered Noble Pen shell which details are available in CASCADE project report D 5.2.1 Report on implemented restoration test and soft actions supporting endangered species. At the end a presentation of conservation measures proposed by project external experts and Sea and Karst expert service was made and discussed between participants. Stakeholders agreed on proposed measures however the problem of the legal framework, which excluded the management body (e.g. Sea and Karst) during the planning and approval of interventions in the maritime domain, proved to be crucial in the implementation of conservation measures in this area. Only a good knowledge of the situation on the ground, which we now have thanks to the CASCADE project, and communication and cooperation between different authorities, can overcome the problem of a deficient legal framework, although in the long term it needs to be changed, by involving more and giving greater powers to the management authorities of Natura 2000 sites. Above all, it is necessary to ask the profession, whether it is the Natura 2000 site management authority, or experts and scientists who work in the area in question. All the suggestions made by the participants will be incorporated into the recommendations and relevant reports/deliverables of the project, and will be forwarded to the competent authorities after the completion of the project: the Ministry of Economy and

	Sustainable Development, the Split-Dalmatia County , the City of Omiš and Dugi rat Municipality.
Role of CASCADE partner in the event:	Public institution Sea and Karst organized the workshop.
Type of audience/target groups involved:	Representatives of the City of Omiš Representatives of the Split-Dalmatia County Representatives of the local and county tourist boards Representatives of the national and local companies Representatives of the diving centres, fishing companies, universities, and research institutes

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	0	
Local, regional and national public authorities	14	Representatives of the City of Omiš Representatives of the Split-Dalmatia County Representatives of the local and county tourist boards Representatives of the local and national companies
Associations	2	Diving centres
NGOs		
Education and training organizations as well as universities and research institutes	4	

Annexes:

- 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.

ANNEXES:

1. INVITATION AND PROGRAM OF THE WORKSHOP



JAVNA USTANOVA MORE I KRŠ

Poziva Vas na:

Prezentaciju rezultata EU projekta CASCADE za područje ekološke mreže Natura 2000 - Ušće rijeke Cetine (HR3000126)



KADA
08.05.2023., 10:00



GDJE
Hotel Plaža, dvorana Mirabella

Program rada

- 10:00 – 10:15 Uvod – prirodne vrijednosti Ušća rijeke Cetine
Jelena Kurtović Mrbelić, More i krš
- 10:15 – 11:00 Praćenje i stanje očuvanosti naselja morske cvjetnice
Silvija Kipson, Sea Fan doo i Branimir Radun, OIKON doo
- 11:00 – 11:15 Praćenje i stanje očuvanosti plemenite periske
Jelena Kurtović Mrbelić, More i krš
- 11:15 – 11:45 Pauza za kavu
- 11:45 – 12:15 Praćenje i stanje očuvanosti korajlnog grebena
Silvija Kipson, Sea Fan doo
- 12:15 – 12:45 Praćenje dinamike pijesaka na području općina Duće i Omiš i uloga morskih cvjetnica u nakupljanju i premještanju sedimenta
Kristina Pikelj, PMF Zagreb
- 12:45 – 13:30 Mjere očuvanja i rasprava

European Regional Development Fund



2. PARTICIPATION LIST

3. PHOTOS





4. PRESS RELEASE

Predstavljeni rezultati aktivnosti praćenja ključnih morskih staništa i vrsta na području Ušća rijeke Cetine u okviru EU projekta CASCADE

Danas je u Omišu, u organizaciji županijske ustanove More i krš, održana radionica na kojoj su predstavljene realizirane aktivnosti praćenja i ocjene stanja ključnih morskih staništa i vrsta, u svrhu poticanja integriranog upravljanja obalnim pojasom i podmorjem područja ekološke mreže Ušće rijeke Cetine, a koje doprinose obnovi staništa ugroženih vrsta.

Radionica se održala u sklopu EU projekta CASCADE (integrirani sustav monitoringa obalnih i morskih ekosustava radi njihove zaštite i upravljanja) koji se financira iz Europskog fonda za regionalni razvoj – Interreg program Italija – Hrvatska 2014-2020. Svoja izlaganja imali su vanjski suradnici projekta Silvija Klipson (Sea Fun doo) i Branimir Radun (Oikon doo), te Jelena Kurtović Mrčelić u ime More i krš. Gost i predavač na radionici bila je Kristina Pikelj ispred PMF-a Zagreb koja već dugi niz godina prati dinamiku pijesaka na ovom području.

Morsko područje ekološke mreže Natura 2000 Ušće rijeke Cetine, pilot je područje EU projekta CASCADE i u protekle tri godine koliko je projekt trajao, More i krš je uspostavila praćenje stanja područja s posebnim osvrtom na 3 strogo zaštićene vrste, morsku cvjetnicu naziva čvorasta morska resa (slična posidoniji), plemenitu perisku te busenasti koralj, kao i praćenje ekoloških uvjeta mora (temperatura, slanost i sl.). Posebno se pratila kritično ugrožena plemenita periska, a primjerak žive jedinke pronađen je upravo u Omišu, 2022. g. što je čini 1 od 18 potvrđenih živih jedinki u Jadranu.

Branimir Radun, čija je tvrtka bila zadužena za analizu i procjenu pokrovnosti čvoraste morske rese zaključio je kako je u 10 godina (2011.-2021.) proširenje pokrovnosti više za 24% u odnosu na 2011. g. (10,39 hektara) što bi na godišnjoj razini bilo povećanje između 2-3%. Zaključio je kako postoje uvjeti za njeno obnavljanje, a kako znamo da su morske cvjetnice pluća Jadrana i stanište plemenite periske ne treba govoriti koliko je ova informacija značajna.

Stanje s plemenitom periskom, endemom Mediterana, nije dobro. Nakon mortaliteta uzrokovanog *Haplosporidium pinnae* parazitom, pronađen je vrlo mali broj živih jedinki, ali nada u njenu obnovu i pronalazak novih jedinki ne jenjava. Osim što je pročištač mora, ona je i stanište brojnim organizmima, epibiontima kao što su spužve, alge, ježinci, mekušci i dr. – nastavila je izlaganje Jelena Kurtović Mrčelić. Uz stručne aktivnosti praćenja populacije plemenite periske, ustanova je u sklopu CASCADE projekta provela i edukativne radionice s djecom iz O.Š. J. Pupačić iz Omiša koji su bili jako zainteresirani i oduševljeni te će svoj entuzijazam i osviještenost prenijeti i u svoje okruženje.

Silvija Klipson nastavila je izlaganje o još jednom endemu Sredozemnog mora, koji se nalazi na ovom omiškom području, u Maloj luci, a zove se busenasti koralj, također strogo zaštićena vrsta. Jako sporo raste, 2,5-3 mm godišnje, a poseban je po tome što može stvarati koraljne grebene. Jedan od rijetkih grebena u Jadranu je onaj u Maloj luci koji se prostire na dubini od 24-28m. Nakon analize grebena, Silvija je istakla kako stanište degradira, koralj ugiba zbog povišene temperature mora i mehaničkih oštećenja, a najdublji dio grebena je najbolje očuvan, 87% živih koralja nalaze na ovom dijelu grebena.

O praćenju dinamike pijesaka na području općine Duće i grada Omiša te o ulozi morskih cvjetnica u nakupljanju i premještanju sedimenta govorila je Kristina Pikelj sa zagrebačkog PMF-a pa se tako moglo saznati kako morske cvjetnice stvaraju bistru vodu, ublažavaju

valove, zadržavaju sediment te na taj način čuvaju obalu od erozije. Većina naše obale je od tvrdih karbonatnih stijena, a samo manji dio je građen od mekših klastita (fliš i sl.), dok su plaže iznimka, a ne pravilo. U analizi sedimenta s plaže u Dućama zaključilo se kao se radi o šljunkovitom pijesku, u prosjeku 89% karbonatnom pijesku, dominiraju komadići stijena te su u manjoj mjeri zastupljeni ostaci morskih i fosilnih organizama. Kod dohranjanja obale i plaža, jako je važno uzeti u obzir karakteristike same obale odnosno individualnu geomorfologiju područja i orijentaciju plaže. Naročito bitni za skladištenje i očuvanje sedimenta su naslage morske vegetacije (poput listova čvoraste morske rese) koja se ne bi smjela uklanjati s plaže.

Nakon prezentacija predložene su mjere i preporuke za očuvanje staništa i vrsta područja ekološke mreže Ušće rijeke Cetine o kojima se raspravljalo s predstavnicima Grada Omiša, županijskih upravnih odjela, ostalih javnih tijela, turističkih zajednica, ribolovnih društava, ronilačkih centara i ostalim sudionicima. Da ovakvih radionica treba biti više i da svi dionici trebaju djelovati zajedno jednoglasno su se složili. Mjere i preporuke biti će sastavni dio konačnog izvješća projekta CASCADE te upućene svim nadležnim tijelima na postupanje.



PUBLISHED PRESS RELEASE IN MEDIA – LINKS

<https://dalmatinskiportal.hr/energija-i-ekologija/cascade-predstavljene-rezultati-aktivnosti-pracenja-kljucnih-morskih-stanista-i-vrsta-na-podrucju-usca-rijeke-cetine/168485>

<https://www.dalmacijadanas.hr/predstavljene-rezultati-aktivnosti-pracenja-kljucnih-morskih-stanista-i-vrsta-na-podrucju-usca-rijeke-cetine-u-okviru-eu-projekta-cascade/>

<https://slobodnadalmacija.hr/om/vijesti/ne-jenjava-nada-u-oporavak-periski-predstavljene-rezultati-pracenja-podrucja-usca-rijeke-cetine-1288152>

2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**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

Event follow up report



Work Package:	<i>Indicate if: 5. Pilots for endangered species restoration and Integrated coastal/marine management system</i>
Activity	<i>Indicate if: 5.3 – Integrated coastal/marine management systems</i>
Deliverable:	<i>Indicate if: 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</i>

Project Partner:	<i>PP12 City of Nin</i>
Name of event:	IMPLEMENTED INTEGRATED COASTAL AREA MANAGEMENT SYSTEMS
Date:	15 and 16. of May 2023
Event type:	<i>Two Workshops Organized events</i>
Event venue:	<i>In presence</i>
Short description of the event:	<p>5.3.2. - Overview of the current situation in the City of Nin and choosing the best solution - presentation of the analysis of the situation, review of identified advantages and disadvantages, strategic framework and results - presentation of long-term goals, priorities and measures, review of projects in implementation, presentation of the implementation project for the reconstruction of the mouth of the Miljašić Jaruga</p> <p>Integrated coastal and marine resource management is a comprehensive approach to coastal management, covering social, economic and environmental issues. The aim of implementing integrated coastal and marine resource management systems is to achieve sustainable development in coastal areas by balancing the interests and needs of various stakeholders, including local communities, government agencies, NGOs and businesses.</p> <p>Integrated coastal and marine resource management is a comprehensive approach to coastal management, covering social, economic and environmental issues. The aim of implementing integrated coastal and marine resource management systems is to achieve sustainable development in coastal areas by balancing the interests and needs of various stakeholders, including local communities, government agencies, NGOs and businesses.</p> <p>Integrated coastal and marine resource management is a comprehensive approach to coastal area management that takes into account social, economic and environmental issues. The aim of implementing integrated management systems is to promote sustainable development and balance the interests and needs of various stakeholders, such as local communities, government agencies, NGOs and businesses. Such management system shall include ecosystem-based management,</p>

	<p>coastal zone planning, stakeholder involvement, capacity building, and policy and institutional frameworks development.</p> <p>As climate change is expected to have an impact on coastal and marine resources, it is crucial to develop adaptation strategies to reduce negative impacts. Involving local stakeholders and communities in the coastal and marine resource management process ensures that decisions reflect local needs and priorities and strengthens support for the conservation of these areas.</p> <p>Through a participatory and collaborative process, the goals of managing coastal and marine resources in the city of Nin should be developed based on a comprehensive understanding of local ecological, social and economic dynamics. Only through an integrated approach and cooperation between all relevant stakeholders can we achieve sustainable management and long-term protection of coastal and marine resources in the City of Nin.</p>
Speakers speeches, brief summary and conclusion:	Urbanex - Margarita Mratović Galić - about 5.3.2. City of Nin - introduction
Role of CASCADE partner in the event:	Host
Type of audience/target groups involved:	General public

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	9 (16.05.2023)-5.3.2. 15 (15.05.2023)-5.3.2.	
Local, regional and national public authorities	12 (16.05.2023)-5.3.2. 5 (15.05.2023)-5.3.2.	
Associations		
NGOs		
Education and training organizations as well as universities and research institutes	1 (16.05.2023)-5.3.2. 1 (15.05.2023)-5.3.2.	

Annexes:

- 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.

Anexes 1 - photos











Anexes 2 – Agenda



PROGRAM RADIONICA

Radionica 1.

IZVJEŠTAJ O PROVEDENIM TESTOVIMA OBNOVE I „SOFT“ AKCIJAMA ZA POTPORU UGROŽENIM VRSTAMA

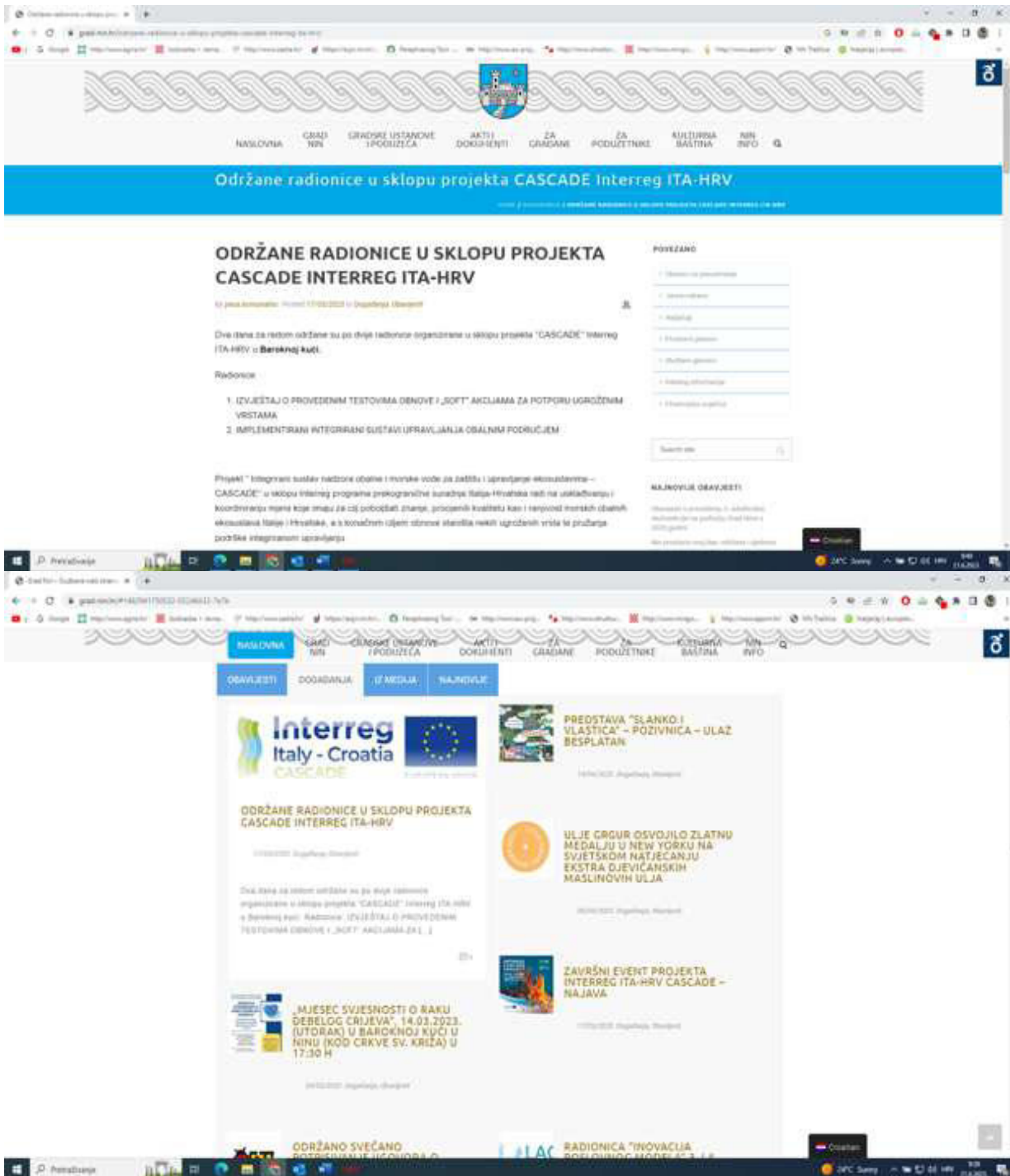
- 08:00 Registracija sudionika
- 09:00 Uvod - predavljanje izrađivača, predavljanje projekta CASCADE, općenite informacije o isporučevini
- 09:10 Pregled stanja o ugroženim i rijetkim vrstama i morskog staništa
- 10:15 Pauza (15 min)
- 10:30 Prijedlog mjera i soft akcija za potporu ugroženim vrstama
- 12:00 Zaključak, rasprava i završna riječ

Radionica 2.

IMPLEMENTIRANI INTEGRIRANI SUSTAVI UPRAVLJANJA OBALNIM PODRUČJEM

- 12:30 Registracija sudionika
- 13:00 UVOD- predavljanje izrađivača, predavljanje projekta CASCADE, općenite informacije o integriranim sustavima upravljanja
- 13:15 PREGLED STANJA PROSTORA GRADA NINA I ODABIR NAJBOLJEG RIJEŠENJA- predavljanje analize stanja, pregled identificiranih prednosti i nedostataka, predavljanje rezultata analize opcija- SWOT
- 14:15 KRATKA PAUZA (15 min)
- 14:30 STRATEŠKI OKVIR I REZULTATI- predavljanje dugoročnih cijeva, prioriteta i mjera, pregled projekata u implementaciji, predavljanje izvedbenog projekta rekonstrukcije ušća Miljašić Jaruge
- 16:00 Zaključak, rasprava i završna riječ

Anexes 4 – links and printscreen of website release



<https://grad-nin.hr/odrzane-radionice-u-sklopu-projekta-cascade-interreg-ita-hrv/>