

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

D 2.4.2 Final report on training activities, seminars and workshops

PP08 DELTA 2000

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
Work Package number	WP2
Work Package title	Communication activities
Activity number	Activity 2.4
Activity title	Events, Training and Workshops
Partner in charge	PP08 – DELTA 2000
Partners involved	All PPs

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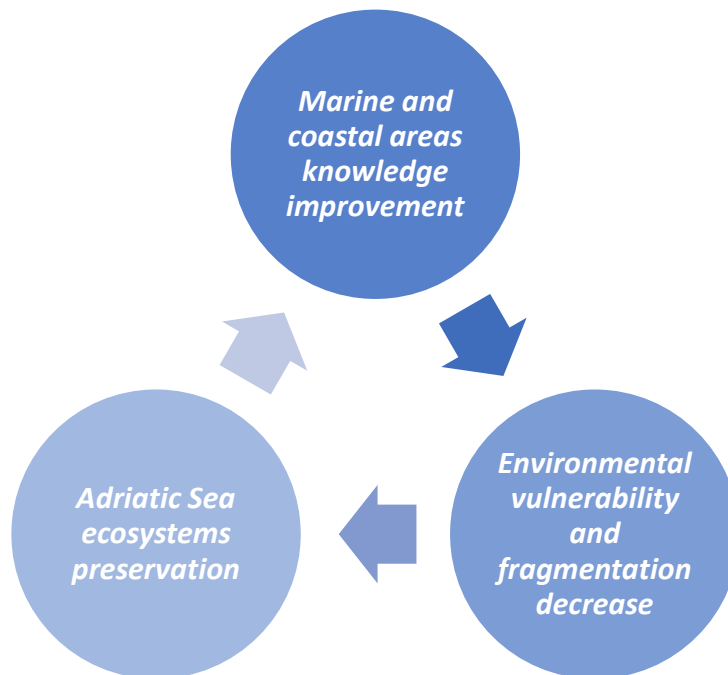
1. Introduction

1.1 Project CASCADE

Cascade project is a strategic project realized and financed in the framework of Italia Croatia programme 2014-2020 . It aims to develop a set of concerted and coordinated actions including monitoring (observing and modelling) and management (Maritime Spatial Planning - MSP, Integrated Coastal Zone Management - ICZM, Land-Sea Interaction - LSI) to enhance the knowledge and to evaluate the quality and assess the vulnerability of inland, coastal and marine ecosystems in Italy and Croatia with the final objective to restore endangered species and to support integrated management. The integrated modelling and observing systems will be developed to design and implement MSP/LSI/ICZM, management and restoration actions in 11 pilot areas.

Pilot actions will assess and protect coastal and marine biodiversity in degraded areas, set up restoration actions, assess the impacts of extreme events on ecosystems and understand how to avoid conflicts and boost synergies in the areas.

The project will consolidate long-lasting research capabilities in the field through a concrete dialogue with stakeholders and the participation of Agencies, research centres and universities in order to enhance inland, coastal and marine knowledge. Such shared information and monitoring protocols are essential for supporting concrete actions dealing with environmental vulnerability, fragmentation and safeguarding of ecosystem services at cross-border level.



In support of the specific project activities, CASCADE involves organizations, institutions, schools, trade associations, research centres, experts, and citizens, engaged various in the subject of biodiversity protection and enhancement, guaranteeing their involvement and active participation in the various Project initiatives.

1.2 The project's partnership

Project's partnership is constituted by 10 Italian and 6 Croatian partners and 4 associated partners, in a balanced mix of administration bodies, agencies, research centers and universities. The project, capitalising on previous experiences of the partners both in research and policy activities, will go beyond existing practices in the programme area, providing a useful blueprint for the setup of strategies and actions in the field of environmental protection.

- Lp Puglia Region
- Pp1 CMCC
- Pp2 Institute Ruder Boskovic
- Pp3 Dubrovnik Neretva County
- Pp4 Arpa Fvg

- Pp5 University Iuav Di Venezia
- Pp6 Unibo
- Pp7 Arpa Emilia Romagna
- Pp8 Delta 2000 - Societa' Consortile A R.L.
- Pp9 Universita' Del Salento – Salento University
- Pp10 Institute Of Oceanography And Fisheries / Iof
- Pp11 Atrac
- Pp12 City Of Nin - Grad Nin
- Pp13 Universita' Degli Studi Del Molise – Unimol
- Pp14 Marche Region
- Pp15 Public Institutions For Management Protected Area in Split Dalmatia County Sea And Karst
-

1.3 Project budget and duration

- **Total budget:** € 5 817 547,00
- **Duration :** 1.1.2020 - 30.06.2023 | 42 months

1.4 Project objective

Programme specific objective 3.2

project overall objective The CASCADe project overall objective is to increase marine knowledge through the consolidation of inland and marine waters monitoring (observing and modelling) tools to address environmental vulnerability, fragmentation, and the safeguarding of ecosystem services, to support the protection of marine ecosystems and to develop science-based restoration methodologies and actions to assess the impacts of extreme events on marine ecosystems. In particular, CASCADe will concretely contribute to biodiversity protection in several Natura 2000 sites also providing monitoring tools, best practices of restoration of endangered species and integrated management plans.

Project specific objective 1

Consolidated dialogue for the monitoring, management and restoration of endangered marine ecosystems

Project specific objective 2

Further development and validation of observing and modelling tools for coastal and marine waters

Project specific objective 3

Enhanced management of the coastal environment and restoration action practices

1.5 Project results

Programme result indicator 3.2R - Excellent conservation status of habitat types and species of Natura 2000 sites in the programme area.

CASCADE main results will be to improve marine and coastal knowledge of Adriatic Sea, decrease environmental vulnerability and fragmentation, and safeguard ecosystem services. Additional results of CASCADE will consist on the development of capacity to support the protection of marine ecosystems. Final main result of CASCADE will be to assess the impacts of extreme events on marine ecosystems and develop science-based restoration methodologies and actions. These above mentioned results are strictly connected to CASCADE outputs, which aim to improve and develop of monitoring systems, to facilitate the access to monitoring data through an information system, to implement pilot actions focussing on restoration actions and improvement of integrated management systems, to engage stakeholders and improve capacity building through dissemination/communication/training activities/guided tours and scuba diving.

1.6 Project structure

From a technical point of view, project activities, organized in 3 technical WPs, clearly address to the identified challenges to reach the aims. Through subsequent and well connected tasks, characterization, monitoring and restoration/management actions are studied, implemented and tested. Including different pilot areas, the project will address biodiversity of habitats and

ecosystems, allowing to refine the developed tools according to site specific characteristics and data needs

Project main WPs
WP 0 - Project preparation
WP 1 - Project management and coordination of activities
WP 2 - Project communication
WP 3 - Coastal Marine Environment characterization of (species and) ecosystems
WP 4 – Monitoring (observations and modelling) and information system
WP 5 - Pilots for endangered species restoration and Integrated coastal/marine management system

2. Events realized with CASCADE project with a focus on trainings, seminars and workshops

The deliverable is foreseen in the framework of ACT. 2.4. but considering the strictly connection between events in the WP 2 – Act. 2.4. and the WP 5 , this report evidences the outcome and results of all public events realized in the frameworks of Cascade project.

Act. 2.4 Events, training and workshops

Act. 5.2 Restoration actions supporting endangered species

Act. 5.3 Integrated coastal/marine management systems

Act. 5.4 Ocean literacy toolkit and local events

2.1 Aim of events realized

As general aim and in line with communication plan of project, in the involved areas, partners organize events addressed to reach target groups as: general publics, visitors, citizens and tourist with the aim to valorise and increase the awareness in the citizens about the marine environmental , disseminate information and knowledge about the scientific activities and results of the project and activities realized in the pilot area and also increase the tourist sustainable attractiveness of Adriatic area.

Furthermore, more important target also the schools and young people to involved also the younger generation, the future of our areas, in the awareness and knowledge about the marine environmental, cultural resources, heritage, traditions, and increase knowledge about the importance of a sustainable development.

The events are also addressed to stakeholders, scientists/technical, local, regional and national public authorities, associations, NGOs, universities and researches institutes with the aim to disseminate information about tool and data resources developed in the project, project and researches results, disseminate results of activities and pilot projects etc.

The CASCADE events had been linked with the pilot interventions with the aim to give information and disseminate activities realized in the pilot sites with a realisation of events in the pilot sites and/or with the theme and content related to pilot sites.

Pilot interventions/areas and partners involved:

P1: Grado and Marano Lagoon and Gulf of Trieste (IT); PP: ArpaFVG; UNIBO

P2: Transitional (e.g. Goro area and Bevano Mouth) and coastal areas in Emilia Romagna (IT); PP: ARPAe; UNIBO; CMCC; Delta2000

P3: Torre Guaceto - Canale Reale, Punta della Contessa, Melendugno in Puglia (IT); PP: Regione Puglia; CMCC; UNISALENTO

P4: Neretva river mouth (HR); PP: IOF, DNC; CMCC

P5: Coastal area in Veneto (IT); IUAV with the support of CORILA;

P6: Miljašić Jaruga river mouth, Nin bay (HR); City of Nin; IOF

P7: Coastal area in Molise (Biferno river mouth, Campomarino Coast and Bonifica Ramitelli SAC) (IT); PP: UNIMOLISE

P8: Northern-eastern Adriatic in Croatia (HR); IRB

P9: Cetina river mouth (HR); PP: Sea and Karst

P10: Torre del Cerrano, Pineto Abruzzo (IT); PP: UNIMOLISE

P11: Marche coastal area (IT); Regione Marche.

In the activities foreseen in the WP 2 Communication, the activity number 4 is dedicated to Events, Training and Workshops.

Act 2.4 Events, Training and Workshops

CASCADE PPs organized events targeted to stakeholders, citizens and tourists with the aim to enhance and increase the awareness about the marine environment, disseminate information and knowledge about the scientific activities and results of the project, namely:

- Cross Border Event
- Seminars, lectures and workshops
- Training and educational activities
- Summer Schools
- Final conference

Trainings, workshops and seminars took place during various kind of activities:

CROSS BORDER EVENT – ADRIATIC SEASIDE FESTIVAL

Deliverable	Partner involved	Name of event	Date	Location
D.2.4.3	LP DELTA 2000 coordinator ; All PPs involved	Cross border events – Adriatic Seaside Festival	30.04.2022 – 30.09.2022	24 different location between Italy and Croatia



ADRIATIC SEASIDE FESTIVAL

WILL TAKE PLACE FROM 30th APRIL TO 30th SEPTEMBER 2022 IN 24 DIFFERENT LOCATIONS IN ITALY AND CROATIA.

100 events organized by the project partners to promote Adriatic literacy, raise awareness of environmental issues and disseminate the cultural values of the sea.

Adriatic Seaside Festival is realized by CASCAD project within INTERREG CBC Italy-Croatia program cofinanced by European Regional Development Fund.

Discover all the events on the website: www.deltaduemila.net

Adriatic Seaside Festival is included in "European Maritime Day in my country 2022".

ADRIATIC SEASIDE FESTIVAL

SI SVOLGERÀ DAL 30 APRILE AL 30 SETTEMBRE 2022 IN 24 DIVERSE LOCALITÀ IN ITALIA E CROAZIA.

100 eventi organizzati dai partner di progetto per promuovere la conoscenza del Mare Adriatico, sensibilizzare alle problematiche ambientali e diffondere il valore culturale del mare.

Adriatic Seaside Festival è realizzato grazie al progetto CASCAD nel quadro del programma INTERREG CBC Italia-Croazia cofinanziato dal Fondo Europeo di Sviluppo Regionale.

Scopri tutti gli eventi sul sito: www.deltaduemila.net

Adriatic Seaside Festival è inserito nell'ambito delle iniziative "European Maritime Day in my country 2022".

ADRIATIC SEASIDE FESTIVAL

ODRŽAT ĆE SE OD 30. TRAVNJA DO 30. RUJNA U 24 RAZLIČITE TALIJANSKE I HRVATSKE LOKACIJE.

Projekt partneri organizirat će 100 događaja u čiju podršku Jadranske kulture, podizanja svijesti o ekološkim problemima i razvoja morskog kulture.

Adriatic Seaside Festival je organiziran od strane CASCAD projekta u okviru programa INTERREG CBC Italija-Hrvatska koji financira Evropski Fond za Regionalni Razvoj.

Informacije o svim događajima na sajtu: www.deltaduemila.net

Događaji Adriatic Seaside Festival-a su uključeni u "European Maritime Day in my country 2022".




SUMMER SCHOOL organized by University of Salento partner during Summer 2022

Deliverable	Partner involved	Name of event	Date	Location
2.4.4	PP9 UNIVERSITY OF SALENTO	SUMMER SCHOOL The Adriatic coastal and marine system - Monitoring, protecting and managing biodiversity and ecosystem services	16 - 22 October, 2022	Brindisi and other location of Puglia Region



LOCAL EVENTS (about a total of n. 10 laboratories, n. 10 seminars, n. 10 workshops, n. 5 scientific training)

A total of 61 local events under the activity 2.4.5 were realized, as shown in the following table.

The local events covered a large kind of typologies, but the workshops, trainings and seminars were the largest part, in terms of type, of these events.

Deliverable	Partner involved	Name of event	Date	Location
2.4.5	LP Puglia Region	5 Events such as trainings, laboratories, workshops, seminars	28 October 2022 – 10 February 2023	Online and in presence (Torre Guaceto Reserve)
2.4.5	PP1 Euro-Mediterranean Center on Climate Change Foundation (CMCC)	1 - Predict on time	11-13 may 2023	Online and in presence
2.4.5	PP2 RBi Rudjer Boskovic Institute	5 Events such as trainings, laboratories, workshops, seminars	4 October 2021 – 22 March 2023	Online and in presence
2.4.5	PP3 Dubrovnik Neretva County & PP10 IOF Institute of Oceanography and fisheries	6 Events such as trainings, laboratories, workshops, seminars, guided tours	22 September 2021 – 10 May 2022	Online and in presence
2.4.5	PP4 – ARPA FVG	6 Events such as trainings, laboratories, workshops, seminars, guided tours	28 September 2021 – 22 November 2022	Online and in presence
2.4.5	PP5 – IUAV University	3 Events such as laboratories, workshops, guided tours	6 November 2021 – 17 May 2023	In presence (Chioggia, IUAV seat)
2.4.5	PP6 University of Bologna – PP7 Arpae	6 Events such as trainings, laboratories, workshops, seminars, guided tours	8 June 2021 – 3 November 2022	Online and in presence (Sacca di Goro, Ravenna Campus)
2.4.5	PP8 – Delta 2000	3 Events (2 workshops and 1 Guided tour)	30 September 2021 – 24 September 2022	Goro, Lido di Dante, Foce Bevano
2.4.5	PP11 – ATRAC	2 workshops	4 September 2021 – 13 April 2023	Rijeka
2.4.5	PP12 – Grad Nin	4 Events such as workshops, guided tours	8 June 2022 – 25 June 2022	Nin
2.4.5	PP13 – University of Molise	17 Events such as trainings, laboratories, workshops, seminars, guided tours	4 December 2020 – 22 April 2022	Various location in Molise Region (Torre Cerrano Reserve, Campomarino) and online

2.4.5	PP14 Marche Region	1 Piano di adattamento climatico della Regione Marche	21 February 2023	Online
2.4.5	PP15 Public Institution Sea and Karst	2 workshops	20 May 2021 – 5 April 2022	City of Omis

FINAL CONFERENCE organized in two locations, one for Croatia and one for Italy

During the last part of the CASCADE Project, 2 high level Final Conferences, with technic / scientific contents were organized by partners, in hybrid way, with the availability of the speeches through the social networks.

The final event in Italy took place in Puglia Region on 13 April 2023.

The final event in Croatia took place in Rovinj on 5 May 2023.



FINAL EVENT
OFFICINE CANTELMO (LE)
13 APRIL 2023 ORE 9.30

REGISTER TO PARTECIPATE:
<https://bit.ly/3ZYvtlF>

REGISTRATION UNTIL 31 MARCH WITHIN THE LIMITS OF AVAILABLE SEATS

LIVE STREAM:
<https://bit.ly/3Z0aiBW>

9:30 REGISTRATION

10:00 WELCOME SPEECH

Chairperson: Antonio Nicoletti – National Responsible for Protected Areas and Biodiversity - Legambiente

Carlo Salvemini – Mayor of Lecce

Anna Grazia Maraschio - Councillor for Environment, Waste Cycle and Remediation, Environmental Supervision, Industrial Risk, Parks and Housing Policy of Apulia Region

Anna Flavia Zuccon - Managing Authority Director.

Paolo Francesco Garofoli - Head of Department of Environment, Landscape and Urban quality of Apulia Region

Marin Miletić - Project Manager of Interreg V A Italy-Croatia 2014-2020 Joint Secretariat

OPENING SESSION

10:40 Valentina De Pinto – CASCADE Project Manager - Introduction and welcome speech from CASCADE project

11:00 Alberto Basset - Department of Biological and Environmental Science and Technology, University of Salento / National Biodiversity Future Centre: Climate change and ecological responses: challenges for conservation and recovery.

11:30 COFFEE BREAK

SESSION 1: COASTAL AND MARINE ECOSYSTEMS IN ITALY AND CROATIA: MONITORING (OBSERVING AND MODELLING) SYSTEMS AND RESULTS

12:00 Daniela Marić Pfannkuchen - Ruđer Bošković Institute: Systematic observation of a model coastal ecosystem towards 21 century – The northern Adriatic;

12:25 Nicola Bettoso e Federico Pittaluga – ARPA FVG: Monitoring of coastal ecosystems and lagoon waters in Friuli Venezia Giulia as part of the CASCADE Project;

12:50 Romana Roje Busatto – Institute of Oceanography and Fisheries: Monitoring of biota, water and sediment in marine environment

13:15 Rita Lecci – Euro-Mediterranean Center on Climate Change (CMCC): Integrated monitoring and modelling system for coastal and marine waters protection in the Adriatic Sea.

13:40 LIGHT LUNCH

SESSION 2: PRESERVATION AND PROTECTION OF COASTAL AND MARINE AREAS: THE WAY FOR THE CORRECT MANAGEMENT

14:40 Luana Mia Pirelli – Municipality of Brindisi: Correct management of protected areas for the preservation and protection of biodiversity

15:05 Martina Vukašina - Zadar County Development Agency Zadra Nova: Interreg projects as a way of sustainable management and restoration of natural ecosystems for biological diversity (case presentation of AdriaClim and Stream projects)

15:30 Daniele Brigolin – University of Venice (IUAV): Integrating monitoring data and food web modelling for supporting the management of marine conservation areas: the case study of Tegnùe di Chioggia

15:55 Francesco De Franco - Management Consortium of the Torre Guaceto Nature Reserve: Preservation of marine space: the case study of Torre Guaceto

16:20 CLOSING REMARKS



FINAL EVENT

04th MAY 2023

MMC - CCM

TRG BRODOGRADILIŠTA 5

ROVINJ - ROVIGNO

REGISTER TO PARTECIPATE:



REGISTRATION UNTIL 28th
APRIL WITHIN THE LIMITS OF
AVAILABLE SEATS

PARTECIPATION IS FREE OF CHARGE

9:30 REGISTRATION

10:00 WELCOME SPEECH

Marco Paliaga – Mayor of Rovinj-Rovigno

Martin Pfannkuchen - Head of Center for Marine Research, Rudjer Bošković Institute

Silvia Buttignoni- Head of Natura Histrica

Marin Miletic - Project Manager of Interreg V A Italy-Croatia 2014-2020 Joint Secretariat

OPENING SESSION

10:40 **Valentina De Pinto** – CASCADE Project Manager - Introduction and welcome speech from CASCADE project

11:00 **Alberto Basset** - Department of Biological and Environmental Science and Technology, University of Salento / National Biodiversity Future Centre: Climate change and ecological responses: challenges for conservation and recovery.

11:30 COFFEE BREAK

SESSION 1: COASTAL AND MARINE ECOSYSTEMS IN ITALY AND CROATIA: MONITORING (OBSERVING AND MODELLING) SYSTEMS AND RESULTS

12:00 **Daniela Marić Pfannkuchen** - Ruđer Bošković Institute: Systematic observation of a model coastal ecosystem towards 21 century – The Northern Adriatic;

12:25 **Nicola Bettoso e Federico Pittaluga** – ARPA FVG: Monitoring of coastal ecosystems and lagoon waters in Friuli Venezia Giulia as part of the CASCADE Project;

12:50 **Romana Roje Busatto** – Institute of Oceanography and Fisheries: Monitoring of biota, water and sediment in marine environment

13:15 **Rita Lecci** – Euro-Mediterranean Center on Climate Change (CMCC): Integrated monitoring and modelling system for coastal and marine waters protection in the Adriatic Sea.

13:40 **Tjaša Kogovšek** - Ruđer Bošković Institute – Citizen science as a tool in jellyfish research

14:00 LIGHT LUNCH

SESSION 2: PRESERVATION AND PROTECTION OF COASTAL AND MARINE AREAS: THE WAY FOR THE CORRECT MANAGEMENT

15:00 **Svjetlana Lupret-Obradović**-Natura Histrica Presentation of Interreg project CREW for Palud Ornithological Reserve

15:30 **Daniele Brigolin** – University of Venice (IUAV): Integrating monitoring data and food web modelling for supporting the management of marine conservation areas: the case study of Tegnùe di Chioggia

15:55 **Riccardo Bentivogli** and **Riccardo Arcamone** - University Bologna: The Goro Lagoon: observations and modelling within the CASCADE project

16:20 **Andrea Torresan**- Presentation of the Interreg project Marless – on line connection

16:45 CLOSING REMARKS

WORKSHOPS addressed to general public or focused to stakeholders

Deliverable	Partner involved	Name of event or type of events	Date	Location
D.5.2.2. D.5.3.2	ALL PPs	Workshops , 62 events	During project realization	Pilot sites or other sites between Italy and Croatia

Workshops organized under WP5 were in total 62.

They were organized under the umbrella event “Adriatic Seaside Festival” and in other dates and locations, mostly in locations situated or near to Pilot Sites, with the aim of involve citizens with direct experience of coastal management, problems and opportunities gained by the activities of the project.

3. Overview of Events realized and stakeholders involvement

A total of 227 events have been realized in the framework of Cascade Project.

Here following there is a table showing the overview of events (note that some event is “multi-type” so the sum is larger than the list of single events).

PARTNER PROJECT	EVENTS
LP Puglia Region	16 events - Workshops, trainings, laboratories, guided tours
PP1 CMCC	3 events – Workshops and online webinars
PP2 INSTITUTE RUDER BOSKOVIC	12 events - Workshops, trainings, laboratories
PP3 IOF & PP10 Dubrovnik Neretva County	13 events - Workshops, trainings, laboratories, guided tours
PP4 ARPA Friuli Venezia Giulia	10 events - Workshops, trainings, laboratories
PP5 IUAV UNIVERSITY OF VENICE	8 events - Workshops, trainings, laboratories, guided tours
PP6 + PP7 UNIBO – ARPAE	10 events - Workshops, trainings, laboratories, guided tours
PP8 DELTA2000	88 events - Workshops, trainings, laboratories, guided tours
PP9 University of Salento	2 events – Laboratory and summer school
PP11 ATRAC	2 events – Workshops
PP12 GRAD NIN	10 events - Workshops, trainings, laboratories, guided tours
PP13 UNIVERSITY OF MOLISE	28 Events - Workshops, trainings, laboratories, guided tours
PP14 Marche Region	3 events – Workshops, seminars
PP15 Sea and Karst	6 events - Workshops, laboratories

Type of events	No.
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workshops	62
laboratory	51
scientific training	7
seminary - conference	14
lectures	15
summer camps	1
guided tour	68
on line competition	1
participation at the exhibitions - fair	3
other citizen science events	5

The largest part of the realized events are workshops, trainings and seminars.

Considering the Summer school, training activities, seminar and workshops a total of no. 135 events are been realized.

Type of events	No.
Summer camp	1
workshops	62
laboratory	51
scientific training	7
seminary - conference	14
Total	135

This approach was of technical-scientific content, to try to transmit to the participants information and training of high level.

Target groups - participants	No.
Local, regional and other public bodies	211
Associations	74
NGOs	22
Education and training org., universities, researches institutes	610
General public	8271
<i>of which students of schools</i>	1533
Total	1219



The target groups predominant has been the general public, composed for a relevant sections by students and young people, participating in summer activities or participating in school visits in pilot areas or events organized by the project with the aim of involving youngsters.

4. Conclusions

Considering the total number of events (211), the largest part of them is composed by workshops (62), laboratories (51) scientific trainings (7) seminary/conference (14), lectures (15, citizen science events (5).

This kind of events, connected to the participation of target groups such as Students of schools (1533 from a total of 8271 counted general public) and Associations (74), NGOs (22), Education and training organizations (610) remark the aim of the project, related to the preservation of coastal eco-systems using scientific approach and didactical/training models of mid-high level of content, obviously adapted to the proper target group.

The general approach of the involving of target groups during project implementation, especially through participation in activities of high level of technical-scientific content, such as workshops, laboratories, lectures, summer school, permitted to reach organizations, institutions, schools, trade associations, research centres, experts, and citizens, engaged various in the subject of biodiversity protection and enhancement, guaranteeing their involvement and active participation both in Project initiatives than, after project completion, in the active involvement of the citizenship in preservation of coastal and marine environment.