

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

# D2.3.2

## Report on users and stakeholders requirements

PP in charge: PP1 – CMCC

Final version

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Project acronym	<b>CASCADE</b>
Project ID number	<b>10255941</b>
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Priority axis	<b>3 - Environment and cultural heritage</b>
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Activity number	<b>Activity 2.3</b>
Activity title	<b>Identification of users/stakeholders requirements and engagement</b>
Partner in charge	<b>PP1 - CMCC</b>
Partners involved	<b>LP – Regione Puglia, PP1 – CMCC, PP2 – IRB, PP13 - Unimolise</b>

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## 1. Introduction

CASCADE Activity 2.3 (Identification of users/stakeholders' requirements and engagement) is aimed at actively engaging with stakeholders from both public and private sectors, including citizens, marine and coastal professionals and institutions, MPA managers and scientists. The identification of relevant stakeholders and the first contact with them through interviews and questionnaires is a key aspect for the engagement activities (e.g. workshops, public events, trainings) envisaged in WP2/WP5 in the pilot sites.

This deliverable is aimed at reporting requirements and perceptions of stakeholders with respect to CASCADE activities, aims and outcomes. It was decided that an online questionnaire would be the best instrument to get in contact with as many stakeholders as possible in all CASCADE pilot areas, and to rapidly collect their feedback.

The questionnaire is instrumental to find solutions that are most appropriate to users and stakeholders' requirements and that successfully address the assessment and management needs of local sites.

A first version of this deliverable was submitted in February 2022, with the analysis of the first 81 replies received.

In this final version the analysis is performed considering all replies collected from the delivery of the questionnaire to June 2022.

## 2. Methodology

In order to engage with CASCADE stakeholders' community and gather from them feedback on the CASCADE project outcomes, an online questionnaire was prepared by PP1 in collaboration with LP and PP13, and the help of PP2 for the Croatian translation.

The online versions of the questionnaire were distributed through partners' mailing lists, websites and social media. Furthermore, paper copies of the questionnaire were distributed during live events. They allowed to collect a reasonable number of answers from the different CASCADE pilot areas.

The questionnaire is structured into 5 sections:

- Section 1 – Demographic questions
- Section 2 – General questions
- Section 3 – CASCADE project objectives
- Section 4 – CASCADE web system
- Section 5 – Final information

**Section 1** collects some basic information about the respondent, in order to provide some statistics about age, gender, profession, education, place of living.

**Section 2** allows to draw a general picture of the respondents and about their actions in management and restoration activities.

**Section 3** explores the respondents' knowledge on the pilot areas and the perception for the environmental protection and environmental services. Respondents are confronted with some scientific terminology and with pictures of familiar ecosystems. The questions collect data about information sources of the respondents and their willingness to act for the protection of the environment, in organized initiatives or in future contributions.

**Section 4** can be compiled only if the respondent replies positively to the last question of the previous section (i.e. Do you produce or use data of environmental monitoring and/or coastal systems management?). Indeed, this section includes very technical questions that may be addressed and of use only for those respondents who need or work with data. The answers to these questions are useful for developing the CASCADE web system in such a way that can provide data and outcomes of interest for the concerned stakeholders. Questions specify which data types, format and frequency the respondents are interested to, and the desired characteristics of the CASCADE web tool.

**Section 5** allows respondents to leave contact details (name and email address) and any relevant comment; it is also important for the authorization to the use of the questionnaire data within the scope of CASCADE project.

The questionnaire is introduced by a short section in which CASCADE project is presented, the aim of the questionnaire is explained and the privacy statement is proposed.

In addition to the English version, Italian and English version were created in order to facilitate the compilation of the questionnaire and increase the number of replies by all possible stakeholders.

**Appendix 1** reports the full questionnaire, only in the English version.

The online version of the questionnaire was developed in the tool SurveyMonkey (<https://www.surveymonkey.com/>), which provides intuitive but powerful solutions, facilitates the compilation of online surveys thanks to available templates and allows to collect feedback and get real-time results, that can be analyzed through self-generated reports (e.g. excel or ppt), filters and other interesting functionalities.

The links to the three versions of the questionnaire are as follows:

- English version: <https://www.surveymonkey.com/r/K8YGGZ5S>
- Italian version: <https://it.surveymonkey.com/r/SWSPDYR>
- Croatian version: <https://www.surveymonkey.com/r/CNGWKN2>

### 3. Results

Although the questionnaire was developed separately in English, Italian and Croatian languages, the results will be presented in an aggregated form, to have an overview at the project level. Therefore, the analysis will report all data into English in order to facilitate the understanding and comparison of results.

From 17 February 2022 to 30 June 2022, **118 responses** were received, out of which 82 in the Italian version of the questionnaire, 35 in the Croatian version of the questionnaire and 1 in the English version.

As it will be shown in the analysis of the following sections, not all proposed questions were answered by the respondents; therefore, for some questions the total answers are less than 118. In other cases, where the respondents could give more than answers to the same questions, the total number in the statistics is above 118.

### 3.1 Section 1 – Demographic questions

The replies to the first questions (question 1 to 4) regarding the demographic information (i.e. age, gender, education, job) are reported in Figure 3.1. The majority of respondents is in the categories of 31-45 and 46-60 years old, male, public administrators and with a high education at the level of Master.



Figure 3.1 Demographic information of respondents (age, gender, job, education level)

Answers to the question about occupation have provided in some cases additional details on the type of job, with respect to the general categories reported in the question, such as tourist operator, officer from public administration, office workers, chemist and biologist, environment guide.

Table 3-1 and Table 3-2 report the place of living of the respondents in the two countries.

N. of respondents	City	Region	N. of respondents	City	County
17	Bari	Puglia	6	Trieste	Friuli Venezia Giulia
1	San Nicandro Garganico	Puglia	2	Bologna	Emilia Romagna
4	Termoli	Molise	1	Padova	Veneto
1	Cesena	Emilia Romagna	2	Ferrara	Emilia Romagna
1	San Vito Chietino	Abruzzo	1	Rimini	Emilia Romagna
2	Silvi	Abruzzo	1	Gorizia	Friuli Venezia Giulia
3	Campobasso	Molise	1	Barletta	Puglia
2	Roma	Lazio	1	Mola di Bari	Puglia
1	San Donaci	Puglia	1	Andria	Puglia
1	Gagliano del Capo	Puglia	1	Andrano	Puglia
9	Lecce	Puglia	2	Foggia	Puglia
1	Vieste	Puglia	1	Nardò	Puglia
1	Putigliano	Puglia	1	Goro	Emilia Romagna
1	San Vito dei Normanni	Puglia	2	Udine	Friuli Venezia Giulia
1	Monopoli	Puglia	1	Napoli	Campania
1	Porto Cesareo	Puglia	1	Russi	Emilia Romagna
2	Bisceglie	Puglia	1	Grado	Friuli Venezia Giulia
3	Brindisi	Puglia	1	Muzzana del Turgnano	Friuli Venezia Giulia
1	Ruvo di Puglia	Puglia	1	Fontanafredda	Friuli Venezia Giulia
			1	-	-
			<b>82</b>		

Table 3-1 Place of living of respondents in Italy



N. of respondents	City	County
1	Rovinj	Istria
8	Split	Split-Dalmatia
1	Sini	Split-Dalmatia
1	Kaštel Novi	Split-Dalmatia
3	Omiš	Split-Dalmatia
5	Metković	Dubrovnik-Neretva
1	Solin	Split-Dalmatia
1	Mravince	Split-Dalmatia
1	Dugi Rat	Split-Dalmatia
1	Zagreb	City of Zagreb
4	Dubrovnik	Dubrovnik-Neretva
2	Opuzen	Dubrovnik-Neretva
1	Mlinište	Dubrovnik-Neretva
1	Nin	Zadar
1	Rijeka	Primorje-Gorski Kotar
3	Hrvatska	-
<b>35</b>		

Table 3-2 Place of living of respondents in Croatia

Out of the 82 Italian respondents, 47 are from Puglia, 7 from Molise, 8 from Emilia Romagna, 3 from Abruzzo, 2 from Lazio (Rome is out of the Programme area but is the capital and some national authorities are placed there), 12 from Friuli Venezia Giulia, 1 from Veneto, 1 from Campania and 1 not specified.

Out of the 35 Croatian respondents, 16 from Split-Dalmatia, 12 from Dubrovnik-Neretva, 1 from Istria, 1 from city of Zagreb, 1 from Zadar, 1 from Primorje-Gorski Kotar and 3 not specified.

### 3.2 Section 2 – General questions

The first question in Section 2 (question n. 6) allows to place the respondents in a specific target group, such as public authority or firm representative or general public. As reported in Figure 3.2, the majority of respondents relates to either regional/local authorities or to University/Research Centers and Environmental Associations. In the “others” category, respondents have specified, for example, to be a consultant, a university spin off, to work in a marina, as legal officer or as tourist board member.

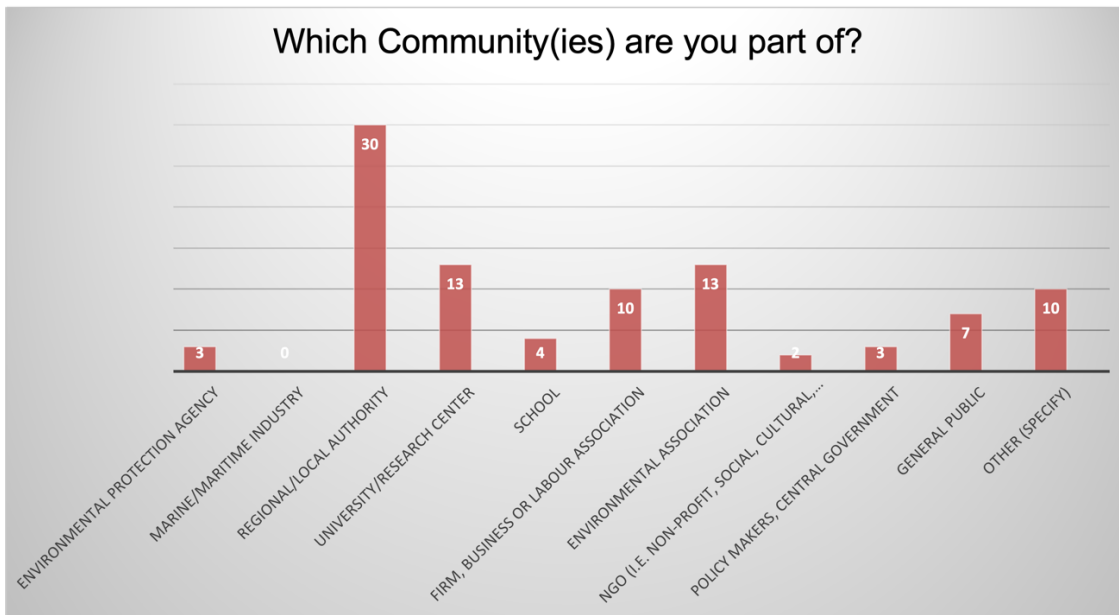


Figure 3.2 Target groups of the respondents

Question 7 explores the importance the respondents attribute to marine and coastal environment in terms of values (recreational, aesthetic, historical, educational, ecological and economical), considering a scale between 1 and 6. The replies reported in Table 3-3 show convergence to the ecological aspect as the most important aspect, followed by historical/cultural.

	1	2	3	4	5	6	Total
Recreation (e.g. tourism, leisure time)	22	12	12	17	15	16	94
Aesthetics (e.g. landscape, spiritual)	10	15	19	15	19	16	94
History and culture (e.g. cultural identity, traditions)	2	18	24	26	17	7	94
Education and research (e.g. understanding of natural processes)	7	23	21	21	13	9	94
Ecology and biodiversity (e.g. nature conservation, biodiversity protection)	44	11	2	2	6	29	94
Economy (e.g. food supply, transport)	9	15	16	13	24	17	94

Table 3-3 Order of importance of marine/coastal environment aspects

Question 8 and 10 are similar but explore two mirror points of view, because in the first case it is asked to what extent the respondents/their organization could be influenced by the effects of adopting specific management and restoration actions in the coast, and in the second case to what extent the respondents/their organization could influence (promote or impede) the implementation of management and restoration actions.

Figure 3.3 reports the two results in parallel.

The answers are quite similar, because the respondents think that, in both ways, the influence is either very much or somehow. It is interesting to note that respondents are more aware of the influence received by the effects of the management and restoration actions than how they influence them (the 7 replies *I don't know* in the second question).

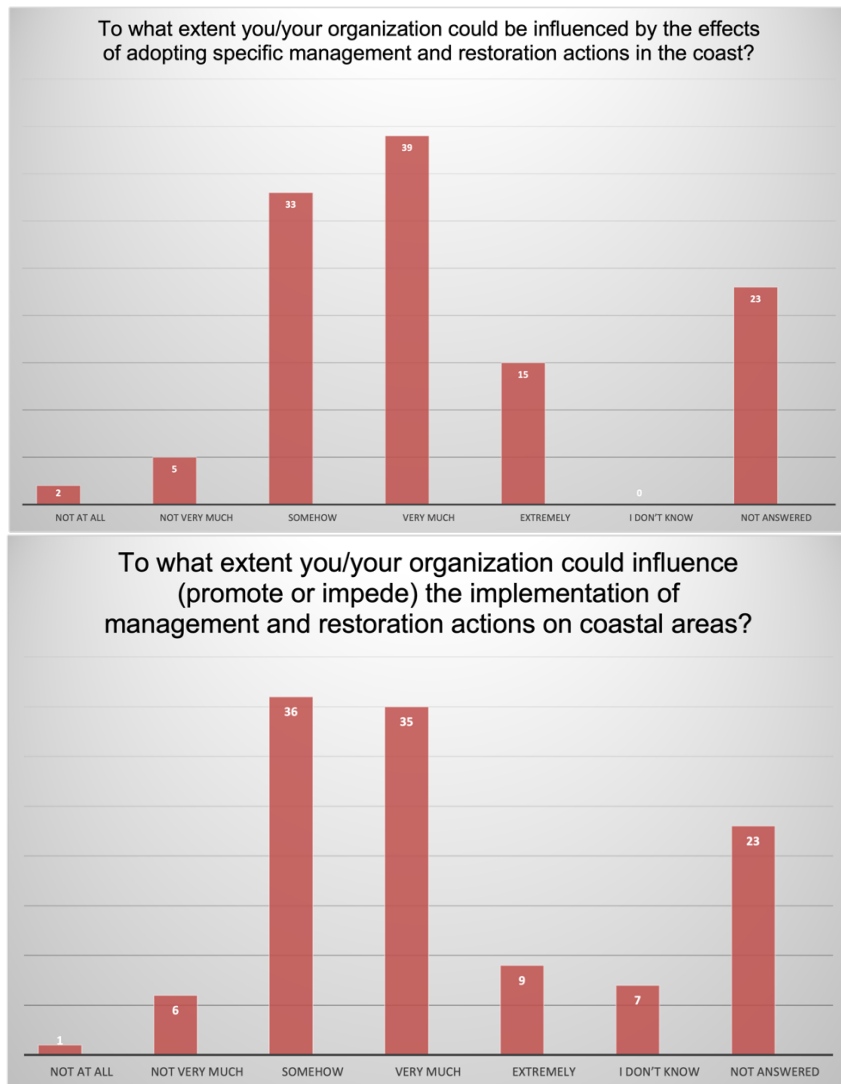


Figure 3.3 Replies to questions about influence of the respondents to and by management and restoration actions

Question 9 and 11 are also connected and explore the motivation of the respondents to be actively engaged in marine and costal ecosystems management and in which role. Both questions allow to select more than one answer, and that’s the reason why the total numbers are much higher with respect to previous questions. Results in Figure 3.4 show that most respondents would be highly motivated by the need to improve the current management strategy in their coast of interest. Among the proposed roles to play in management and restoration actions, the most voted ones are implementer of actions, producer of data/knowledge and enhancer of public participation.

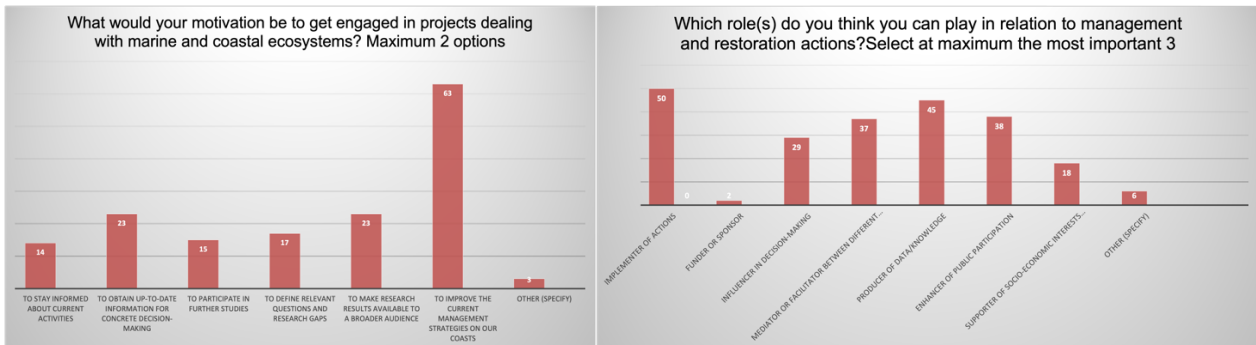


Figure 3.4 Motivation to be engaged and role to play

### 3.3 Section 3 – CASCADE project objectives

This section has been conceived to get respondents opinions and knowledge in topics related to CASCADE activities and objectives.

Question 12 and 13 investigate whether the respondents are familiar with terms of actions, science and management in use within CASCADE, and with those ecosystems on which are focused the activities of the project pilots. For question 13, representative pictures of the ecosystems are proposed to facilitate the identification by the respondents.

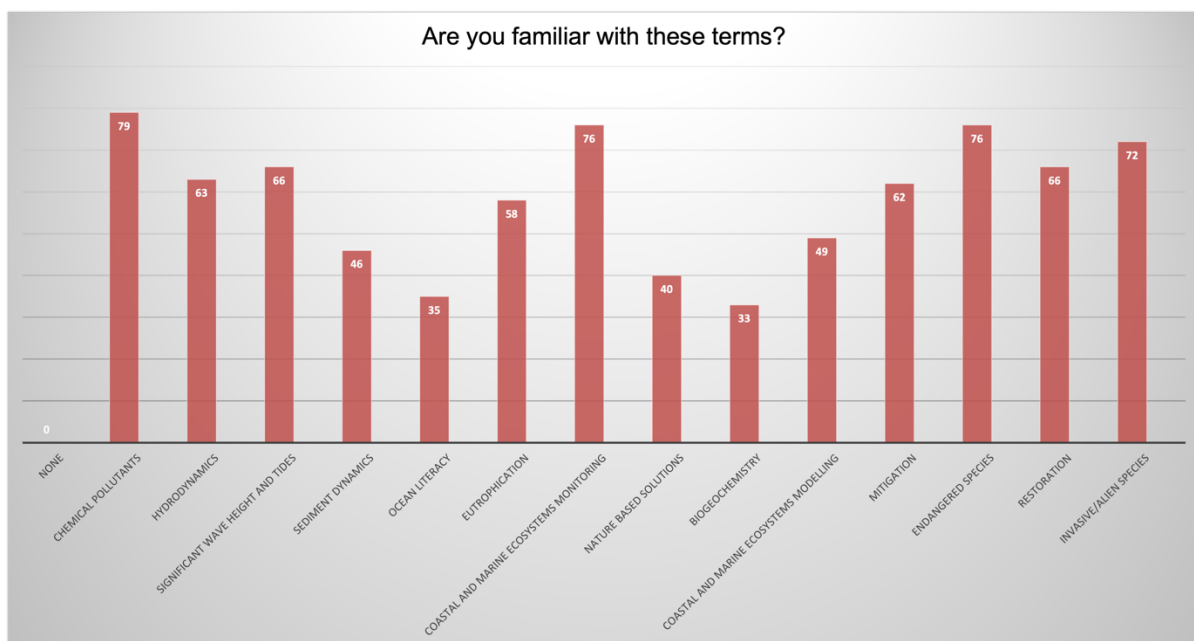


Figure 3.5 Familiarity with different terms connected to CASCADE activities

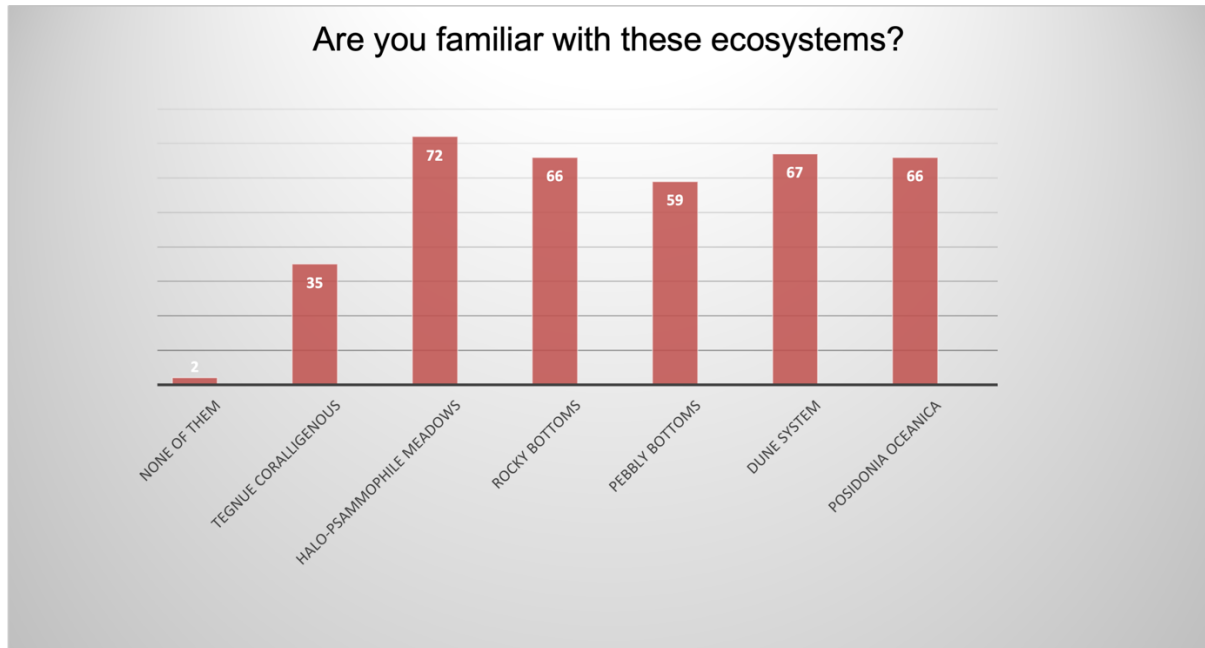


Figure 3.6 Familiarity with different ecosystems investigated in CASCADE pilot areas

Replies, reported in Figure 3.5 and Figure 3.6, show that the most known terms are chemical pollutants, coastal and marine ecosystems monitoring, endangered and invasive species, while more technical terms such as biogeochemistry and sediment dynamics, but also some practices, such as nature based solutions and ocean literacy, are still unfamiliar or unknown to the majority. Regarding the ecosystems, the replies show a good knowledge of the proposed ecosystems, with the exception of the *tegnue coralligenous*.

Question 14 assesses the link between the respondents and the CASCADE pilot sites, as reported in Figure 3.7. Although the interest in one pilot area does not necessarily match to the fact that the respondents may live in that specific area, there is a quite good agreement between the replies to this question and the data of Table 3-1 and Table 3-2, since the most interesting areas are those of the Apulia coast and the Neretva River mouth, where also the majority of respondents are coming from.

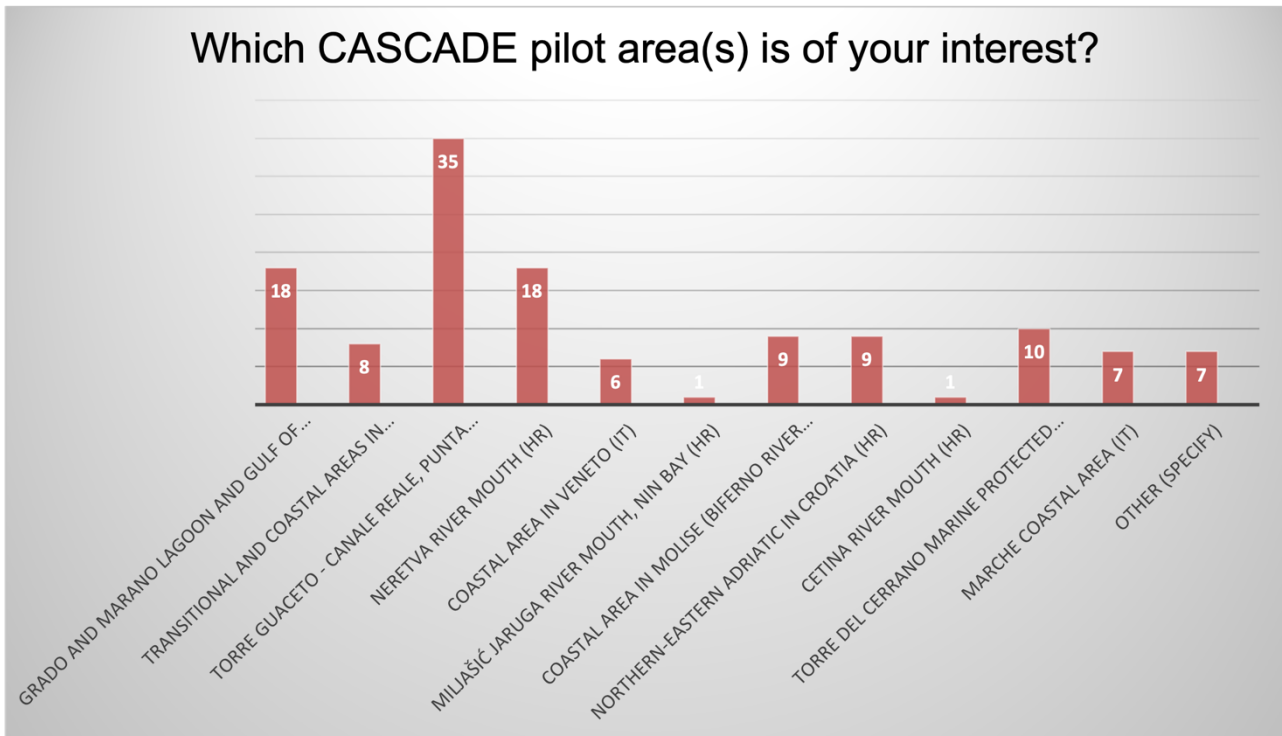


Figure 3.7 Expression of interest for CASCADE pilot areas

Questions 15 and 16 aim to investigate how respondents look at the use of coastal and marine resources for human activities.

The first question, whose replies are reported in Figure 3.8, is more general and the results indicate that the respondents do not see a full conflict between the economic activities and the environment conservation or restoration; 19 of them are in complete disagree with the assumption of this conflict, the majority partially agree (and this would require more investigation about the reason behind this choice).

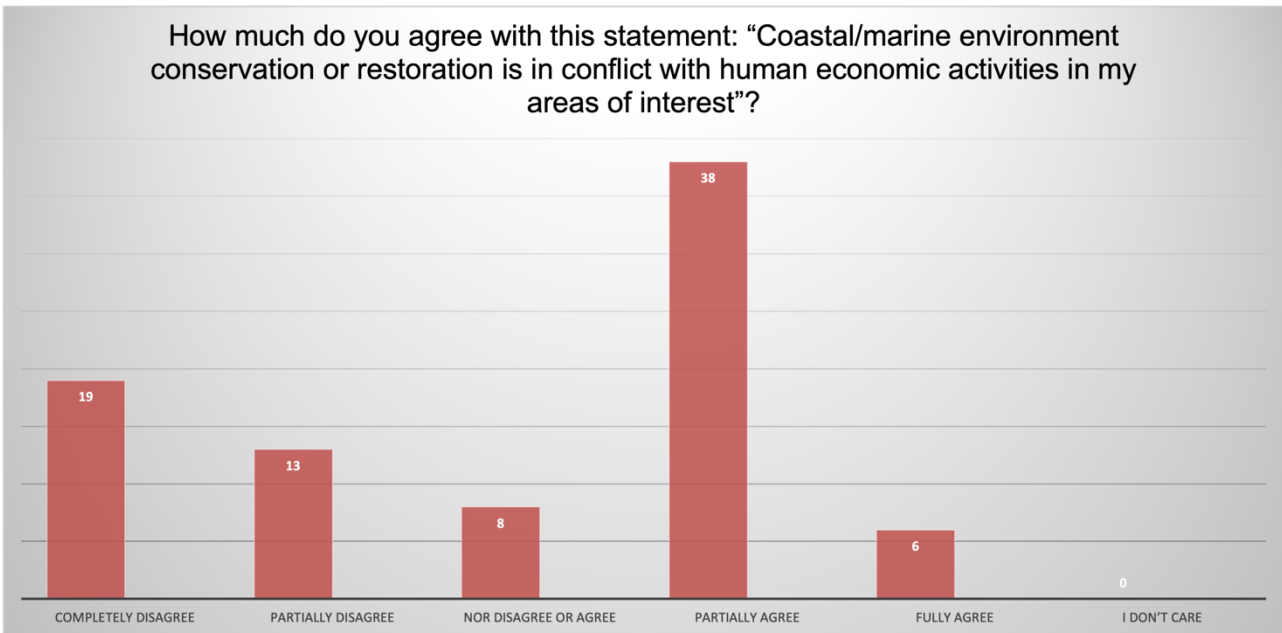


Figure 3.8 Agreement with the statement “Coastal/marine environment conservation or restoration is in conflict with human economic activities in my areas of interest”.

Question 16 goes into more details about economic activities insisting on coastal and marine environments and which ones are considered more important. According to the replies reported in Table 3-4, the most important economic activities are considered tourism/leisure followed by fishery/aquaculture, and the least important is shipbuilding.

Which economic activities in coastal/marine areas do you consider the most and the least important ones?							
	Tourism/Leisure	Fishery/Aquaculture	Maritime transport/Shipping	Energy	Shipbuilding	Other	Total
The most important	42,00	25,00	10,00	3,00	2,00	0,00	82,00
The least important	6,00	1,00	7,00	20,00	39,00	7,00	80,00

Table 3-4 Ranking of economic activities

Another interesting aspect that is investigated in the survey concerned how much the respondents are informed about management actions in their area of interest and which are the sources of information about the status of those environments. As reported in Figure 3.9, the majority of respondents believes to be partially informed about the management actions.

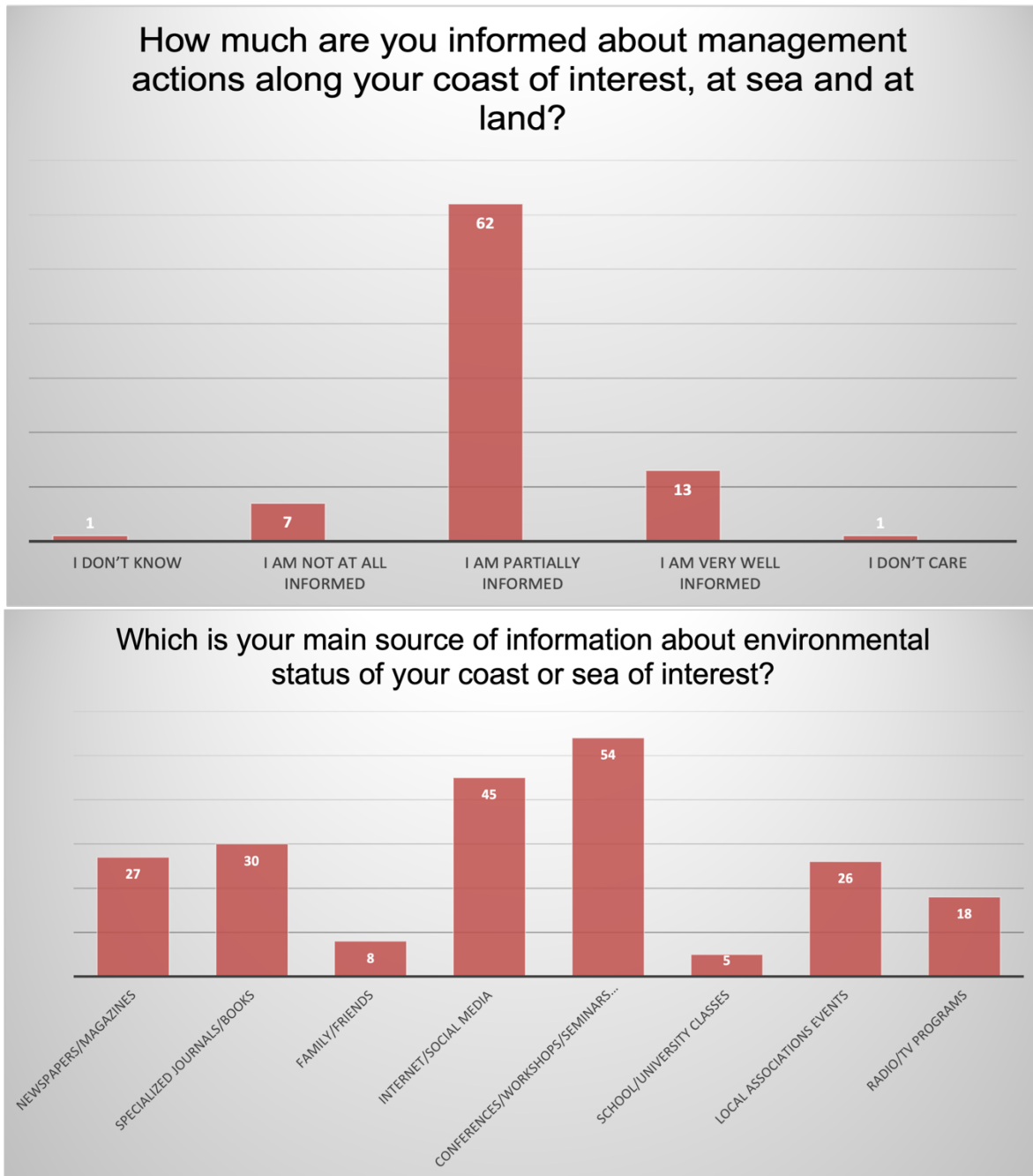


Figure 3.9 Level and sources of information

The sources of information about the marine/coastal environment status seem to be primarily the participation to conferences/workshops/seminars and internet/social media. On the contrary, the least used source of information is school/university classes, which may certainly depend on the age and occupation of the respondents, but which also may point out the need to improve the capacity of



schools and universities to address environmental issues and promote related information, maybe also with external activities (such as those endorsed within ocean literacy initiatives).

Question 19 invites the respondents to identify the most relevant difficulty that poses an obstacle to sustainable coastal management. Figure 3.10 clearly shows that the biggest difficulty is the lack of political support, followed to a lesser extent by the limited statutory stakeholder participation and by pollution. On the other side, increased fishery and aquaculture and expansion of industry are not considered a significant barrier.

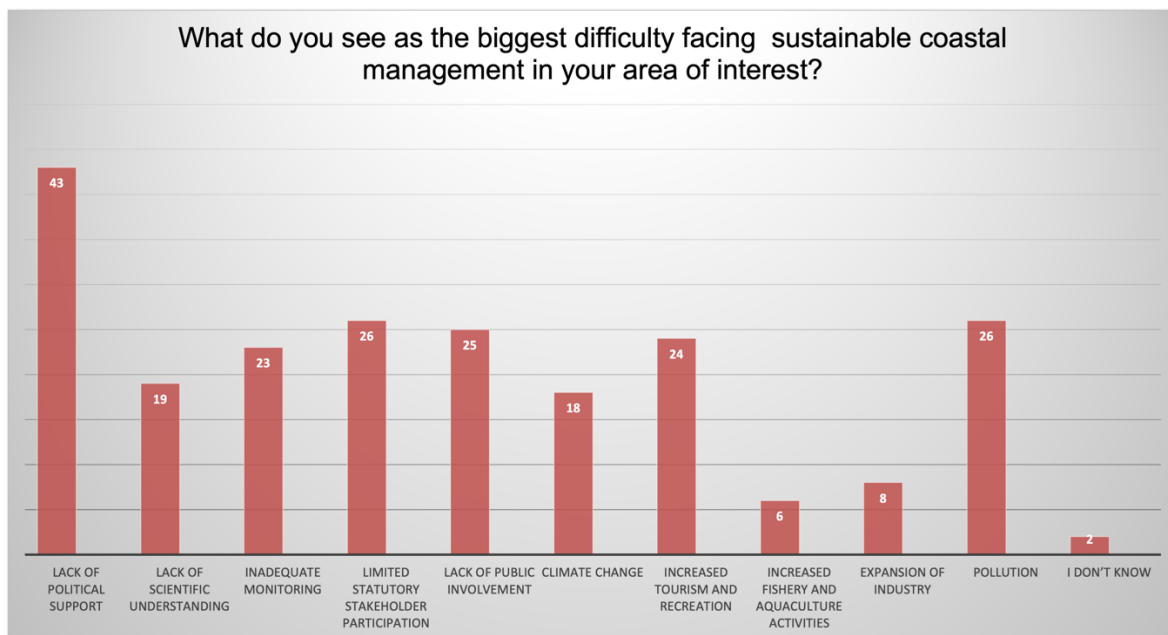


Figure 3.10 Identification of the biggest obstacles to sustainable coastal management

The only open question proposed in the survey (question 20: “In the hypothetical case in which you have the opportunity implement a single action along the coast of your interest with a considerable amount of financial resources, what would you do?”) gives the possibility to the respondents to freely propose a management action. The replies are quite different in their description, very rarely well elaborated on the proposed idea. The most frequent proposals regard activities of population awareness raising and clean up; the improvement and continuous maintenance of monitoring activities, and the environmental protection, which are suggestions shared on both side of the Adriatic Sea.

The last two questions of Section 3 investigate whether the respondents have ever been involved in initiatives such as campaigns and other events, and if they think that they or their organization can offer any contribution to CASCADE project, as reported in Figure 3.11.

Concerning involvement in different initiatives, almost all the respondents have participated, either because it is their job or because they are interested. Concerning the contribution that could be brought to the project, more than half of the respondents does not know and for those who replied positively

the most common proposed contribution is monitoring and data collection activities, and awareness raising, which somehow match the replies seen in question 20.

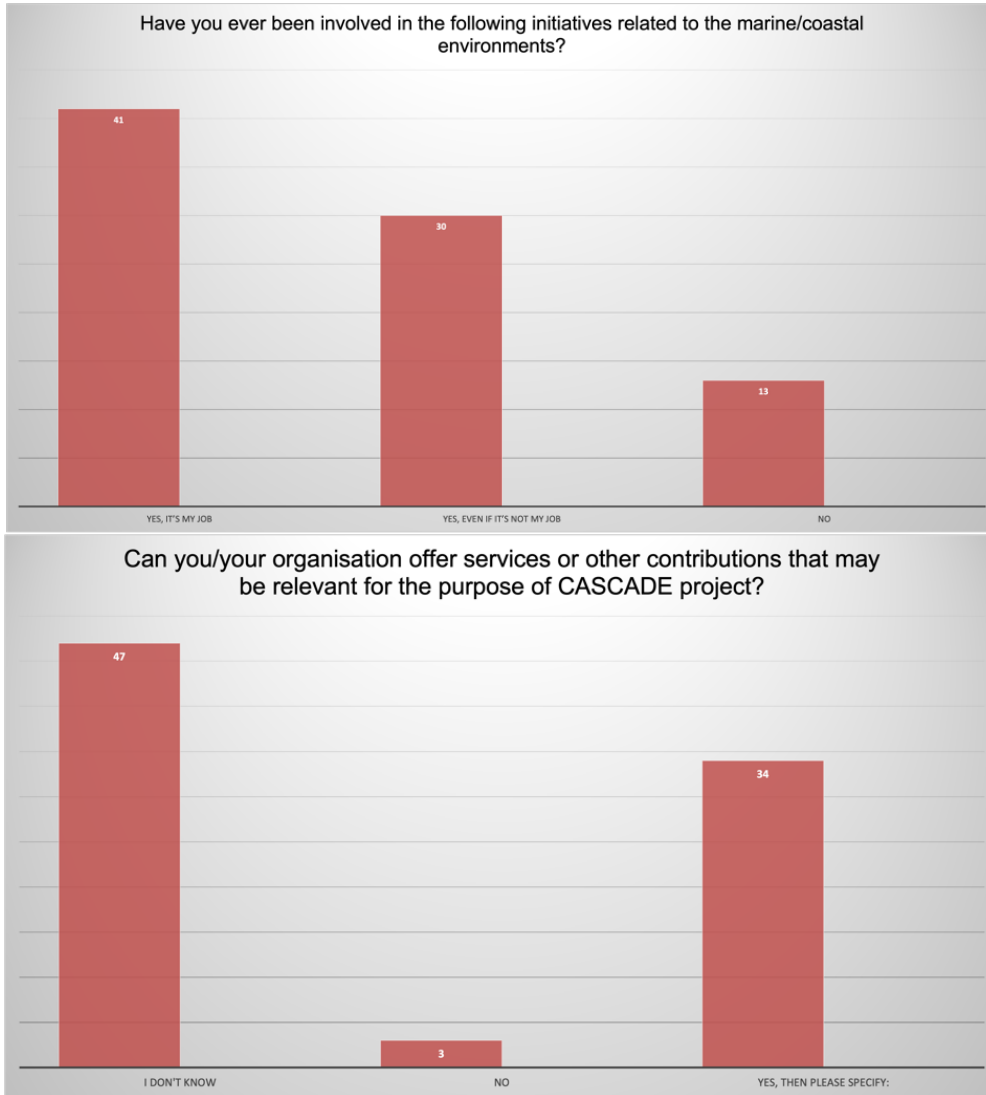


Figure 3.11 Involvement in different initiatives and contribution to CASCADE project

Question 23 is used as a bridge towards the next part of questionnaire. As explained in the Methodology, since Section 4 proposes quite technical questions related to the data potentially produced by CASCADE and distributed to its web system, it is important to make only interested and knowledgeable respondents to reply to this Section questions. As evident in Figure 3.12, more than half of the respondents replied positively and continued in Section 4.

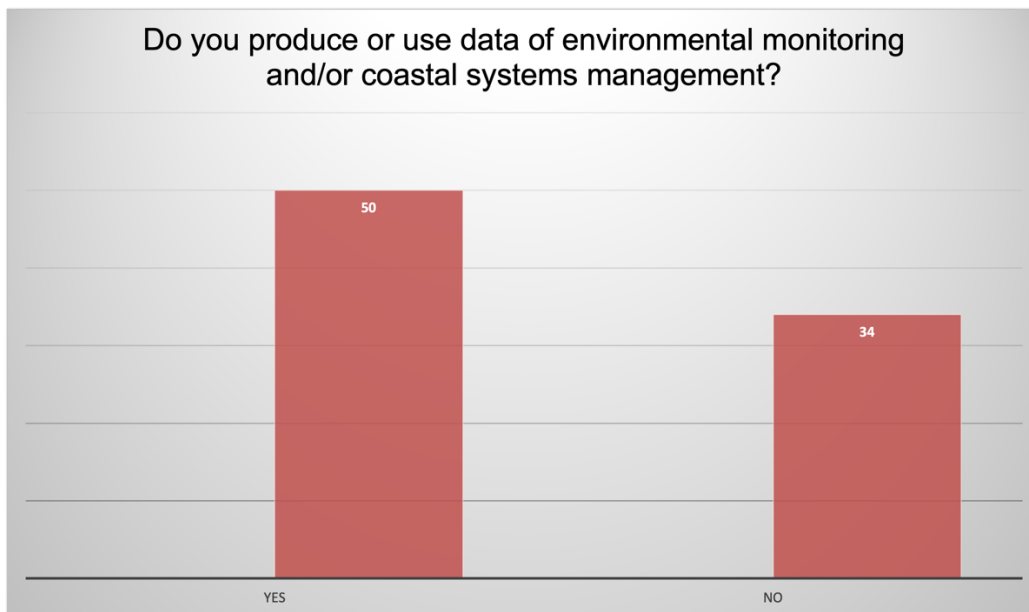


Figure 3.12 Do the respondents produce or use data about monitoring and management

### 3.4 Section 4 – CASCADE web system

The aim of Section 4 of the questionnaire is to get information about which kind of data and with which features the respondents would like to see in the CASCADE system.

The first two questions investigate the types of data (Figure 3.13) that the respondents usually work with or is interested in, both for the observations and for modelling. Results show that for what concerns the observations, most needed are data on ecological and biological aspects, while for what concerns modelling data, the most needed are ocean hydrodynamic data. Among the other options, data on economics, habitat fragmentation and fishing/aquaculture have been mentioned.

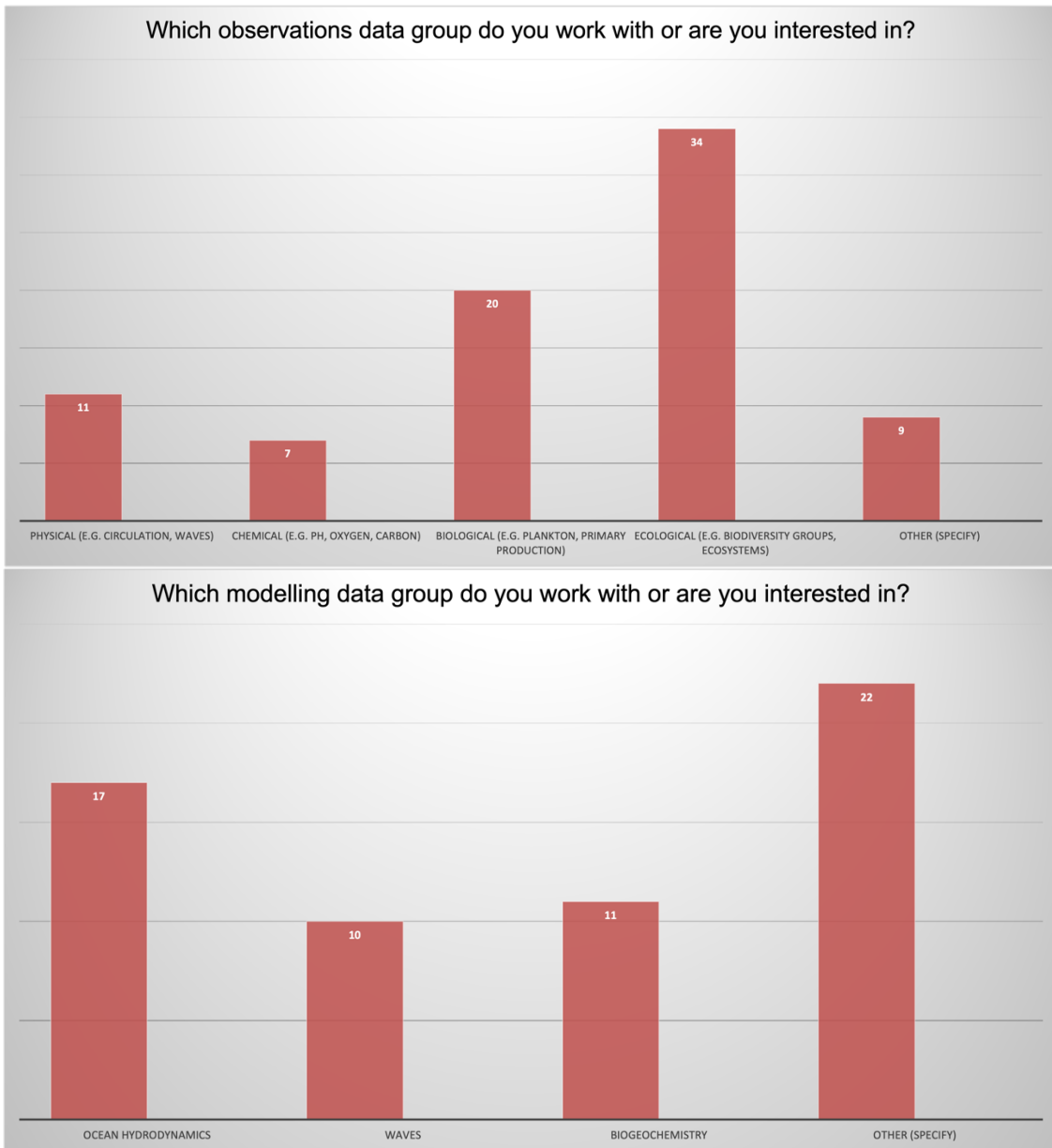


Figure 3.13 Observation and modelling data interest

With question 26, the questionnaire gets information on current source of observing data: among the Italian replies, ISPRA, Environmental Protection Regional Agencies, EU Copernicus Marine Service, wave buoys have been mentioned, while in the Croatian replies, specific monitoring stations and the Croatian Institute of Public Health have been mentioned.

In the following question 27, where respondents are free to list the type of data still missing from observations and modelling, 13 out of 25 Italian respondents and 5 out of 13 Croatian respondents do not know how to reply; for those that replied, mentioned missing data are e.g. data related to sport

fishing and small coastal fishing, wave and current measurements, high resolution data, data about some habitats and biology.

Questions 28 to 31 are used for understanding the features of the data normally used, in order to make the CASCADE web system data compliant with these requirements. As shown in the results reported in Figure 3.14, respondents are mainly interested in data on past events and short-term forecasts, and they usually use spreadsheet and GIS data. Regarding frequency, most of the respondents need yearly data. Among the others, weekly and monthly have been mentioned. Following what was stated about the data format, the most voted options for the results of the CASCADE system have been maps, trend timeseries and tables.

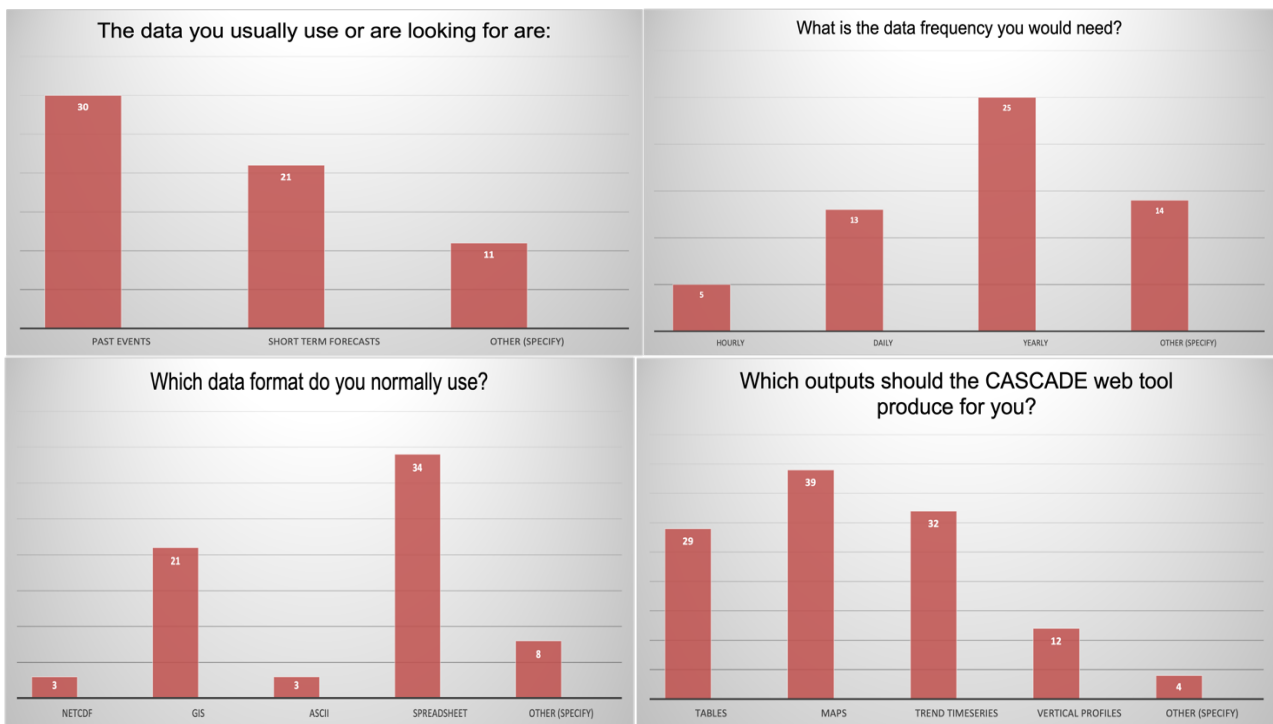


Figure 3.14 Features of data used or needed

The final question 32, whose answers are reported in Figure 3.15, reveals that the most preferred functionalities they would like to see in CASCADE system are: support to the monitoring activities, data and maps interpretation, and also support to planning.

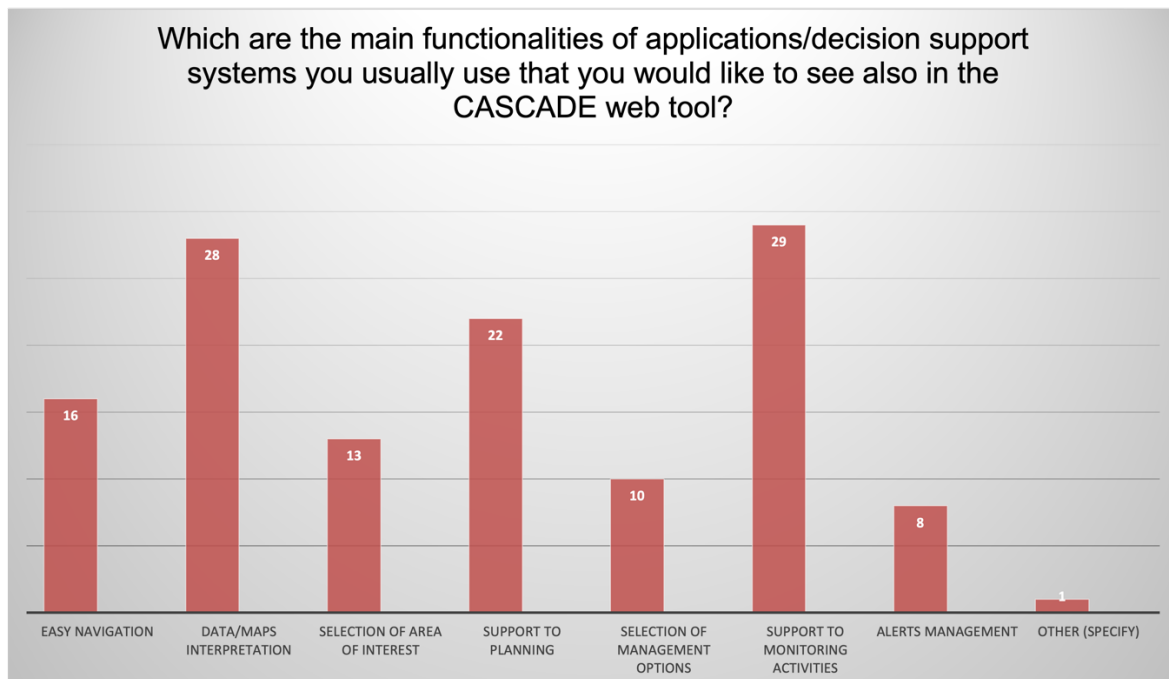


Figure 3.15 Main desired functionalities of CASCADE web system

Less interest is shown for functionalities related to the selection of management options or alerts management.

About the final questions, 43 Italian and 23 Croatian respondents have expressed their interest in receiving information about CASCADE development. In total 44 respondents left their name and contact details. Some of them expressed their appreciation for an interesting and well developed questionnaire.

## 4. Conclusions

The development of the questionnaire was a long process during which questions were thought and spelled out in order to get as much information as possible and also get into contact with potential stakeholders and groups of interest. The length of the questionnaire was carefully planned and each question has been discussed among the group of developers in order to make the language accessible to all and at the same time to get replies interesting for CASCADE activities.

The survey with just 118 replies has already caught some interesting topics, pointed out in the previous sections, which will be taken into account in the development of CASCADE outputs. However, the need to further engage with stakeholders and balance the participation in all project pilot areas is quite evident and should be the aim of the next months' project activities.

## 5. Appendix 1 – Questionnaire – English Version

### INTRODUCTION

#### WHAT IS CASCADE?

CASCADE (CoAstal and marine waters integrated monitoring systems for ecosystems protection And management) is a strategic project funded under the Interreg CBC 2014 - 2020 V-A Italy - Croatia Program, Priority Axis: Environmental and cultural heritage. CASCADE supports the Specific Objective 3.2 - of the Program that contributes to protect and restore biodiversity.

CASCADE will develop a set of concerted and coordinated actions including monitoring (observing and modeling) and management (e.g. Maritime Spatial Planning – MSP, Integrated Coastal Zone Management – ICZM) to enhance the knowledge, 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.

An integrated modeling and observing systems will be developed to design and implement management and restoration actions in 11 pilot areas along the Adriatic coast.

More information about CASCADE project can be found here: <https://www.italy-croatia.eu/web/cascade>

#### WHY THIS QUESTIONNAIRE?

Your contribution, through the compilation of this questionnaire, will be instrumental to find solutions that are most appropriate to users and stakeholders requirements and that successfully address the assessment and management needs of local actors.

We would like to hear from you about how much you know of the coastal and marine areas of your interest, how much you are involved in their management/restoration and what would you expect from CASCADE project.

If you are a professional involved on coastal/marine monitoring and management, we are also interested to know which kind of data you produce or use in your work.

Throughout the questionnaire you will be confronted with questions related to management and restoration actions. Management and restoration actions are those activities that allows a sustainable management of natural assets or assist in the recovery of ecosystems that have been degraded or destroyed, as well as conserving the ecosystems that are still intact.

Some examples of these actions are: restoration of endangered species and habitats, aliens species management, seashore and beach litter management, trampling management and coastal dune integrity.

#### Privacy statement

The compilation of the questionnaire is absolutely anonymous, unless you decide to leave your name and affiliation at the end. After having answered and sent the questionnaire, it will no longer be attributable to the person who filled it in.

More information about privacy policy can be found at the following link:  
<https://www.cmcc.it/privacy-cookie>

In case of doubts or for further information, it is possible to send an e-mail to Paola Agostini,  
[paola.agostini@cmcc.it](mailto:paola.agostini@cmcc.it).

**We thank you very much for your participation!**

## QUESTIONNAIRE

### Section 1 – Demographic questions

**Question 1** (mandatory)

**What is your age? (Broad range)**

- Under 18
- 18-30
- 31-45
- 46-60
- Above 61

**Question 2** (mandatory)

**What is your gender?**

- Male
- Female
- Don't want to say

**Question 3** (mandatory)

**What is your highest qualification?**

- Less than a high school diploma
- High school diploma or equivalent degree
- Bachelor's degree
- Master's degree
- PhD

**Question 4** (mandatory)

**What is your job?**

- Unemployed
- Public administration workers
- Trader



- Artisan
- Farmer
- Entrepreneur
- Researcher/University professor
- Teacher
- Student
- Retired
- Other (please specify) \_\_\_\_\_

**Question 5** (mandatory)

**Where do you live?**  
 (please specify your city/country) \_\_\_\_\_

**Section 2 – General questions**

**Question 6** (mandatory)  
**Which Community(ies) are you part of?**

- Environmental Protection Agency
- Marine/Maritime industry
- Regional/Local authority
- University/Research Center
- School
- Firm, Business or Labour Association
- Environmental association
- NGO (i. e. non-profit, social, cultural, charity association)
- Policy maker, Central government
- General public
- Others (please specify) \_\_\_\_\_

**Question 7**  
**Which is, in your opinion, the most important aspect connected to marine and coastal environments:** (reorder the following items in order of importance) (mandatory)

	Recreation (e.g. tourism, leisure time)	Aesthetics (e.g. landscape, spiritual)	History and culture (e.g. cultural identity, traditions)	Education and research (e.g. understanding of natural processes)	Ecology and biodiversity (e.g. nature conservation, biodiversity protection)	Economy (food supply, transport)
--	--	---	--	--	--	----------------------------------

0 (least important)						
1						
2						
3						
4						
5 (most important)						

**Question 8**

**To what extent you/your organization could be influenced by the implementation of management and restoration actions (such as the examples mentioned in the introduction to this questionnaire)?** (mandatory)

- Not at all
- Not very much
- Somehow
- Very much
- Extremely
- I don't know

**Question 9**

**What would your motivation be to get engaged in projects dealing with marine and coastal ecosystems?**

(maximum 2 options)

(mandatory)

- to stay informed about current activities
- to obtain up-to-date information for concrete decision-making
- to participate in further studies
- to define relevant questions and research gaps
- to make research results available to a broader audience
- to improve the current management strategies on our coasts
- other, please specify:

**Question 10**

**To what extent you/your organization could influence (promote or impede) the implementation of management and restoration actions?** (mandatory)

- Not at all
- Not very much
- Somehow
- Very much
- Extremely

I don't know

**Question 11**

**Which role(s) do you think you can play in relation to management and restoration actions?**  
 (select the most important 3) (mandatory)

- implementer of actions
- funders or sponsors
- influencer in decision-making
- mediators or facilitators between different actors/communities
- producer of data/knowledge
- enhancer of public participation
- supporter of socio-economic interests and development
- other, please specify: \_\_\_\_\_

**Section 3 – CASCADE project objectives**

**Question 12**

**Are you familiar with these terms?**  
 (more than one option can be selected) (mandatory)

- Chemical pollutants
- Hydrodynamics
- Significant wave height and tides
- Sediment dynamics
- Ocean literacy
- Eutrophication
- Coastal and marine ecosystems monitoring
- Nature based solutions
- Biogeochemistry
- Coastal and marine ecosystems modelling
- Mitigation
- Endangered species
- Restoration
- Invasive/alien species
- None of them

**Question 13**

**Are you familiar with these ecosystems (*pictures will describe some of them*)?**

(more than one option can be selected)

(mandatory)

- Tegnet coralligenous
- Halo-psammophile meadows
- Rocky bottoms
- Pebbly bottoms
- Dune system
- Posidonia oceanica
- None of them

#### Question 14

**Which CASCADE pilot area(s) is of your interest?**

(more than one option can be selected)

(mandatory)

- Grado and Marano Lagoon and Gulf of Trieste (IT)
- Transitional and coastal areas in Emilia Romagna (e.g. Goro area and Bevano Mouth) (IT)
- Torre Guaceto - Canale Reale, Punta della Contessa, Melendugno in Puglia (IT)
- Neretva river mouth (HR)
- Coastal area in Veneto (IT)
- Miljašić Jaruga river mouth, Nin bay (HR)
- Coastal area in Molise (Biferno river mouth, Campomarino Coast and Bonifica Ramitelli SAC) (IT)
- Northern-eastern Adriatic in Croatia (HR)
- Cetina river mouth (HR)
- Torre del Cerrano, Pineto Abruzzo (IT)
- Marche coastal area (IT)
- Other area (please specify) \_\_\_\_\_

#### Question 15

**How much do you agree with this statement: “Coastal/marine environment conservation or restoration is in conflict with human economic activities in my areas of interest”?**

(mandatory)

- Completely disagree
- Partially disagree
- Nor disagree or agree
- Partially agree
- Fully agree
- I don't care

#### Question 16

**Which economic activities in coastal/marine areas do you consider the most and the least important ones?**

(two options the most/the least) (mandatory)

	Tourism/Leisure	Fishery/Aquaculture	Maritime transport/Shipping	Energy	Shipbuilding	Other
The most						
The least						

**Question 17**

**How much are you informed about management actions along your coast of interest, at sea and at land?** (mandatory)

- I don't know
- I am not at all informed
- I am partially informed
- I am very well informed
- I don't care

**Question 18**

**Which is your main source of information about environmental status of your coast or sea of interest?**

(more than one option can be selected)

(mandatory)

- Newspapers/magazines
- Specialized journals/books
- Family/friends
- Internet/Social media
- Conferences/workshops/seminars attendance
- School/University classes
- Local associations events
- Radio/TV programs

**Question 19**

**What do you see as the biggest difficulty facing sustainable coastal management in your area of interest?**

(select the 3 most important)

(mandatory)

- Lack of political support
- Lack of scientific understanding
- Inadequate monitoring

- Limited statutory stakeholder participation
- Lack of public involvement
- Climate change
- Increased tourism and recreation
- Increased fishery and aquaculture activities
- Expansion of industry
- Pollution
- I don't know

### Question 20

**In the hypothetical case in which you have the opportunity implement a single action along the coast of your interest with a considerable amount of financial resources, what would you do?** (mandatory)

Free text: \_\_\_\_\_

### Question 21

**Have you ever been involved in the following initiatives related to the marine/coastal environments?** (mandatory)

- Campaigns for data and information collection activities (Citizen science)
- Volunteer campaigns in the marine/coastal (i.e. scuba diving, education, conservation, marine/beach littering)
- Other initiatives (conferences, fairs, events)
- Aliens species monitoring management, seashore and beach litter removal and management, boardwalk construction to reduce trampling and preserve coastal dune integrity, requalification of natural saltmarshes

- Yes, it's my job
- Yes, even if it's not my job
- No

### Question 22

**Can you/ your organisation offer services or other contributions that may be relevant for the purpose of CASCADE project?** (mandatory)

- I do not know
- No
- Yes, then please specify: \_\_\_\_\_

### Question 23

**Do you produce or use data of environmental monitoring and/or coastal systems management?** (mandatory)

- Yes

No

## Section 4 – CASCADE web system

Only for those who replied YES to the previous question

### Question 24

**Which observations data group do you work with or are you interested in?**

(more than one option can be selected)

(mandatory)

- Physical (e.g. circulation, waves)
- Chemical (e.g. pH, oxygen, carbon)
- Biological (e.g. plankton, primary production)
- Ecological (e.g. biodiversity groups, ecosystems)
- Others (please specify) \_\_\_\_\_

### Question 25

**Which modelling data group do you work with or you interested in?**

(more than one option can be selected)

(mandatory)

- Ocean hydrodynamics
- Waves
- Biogeochemistry
- Others (please specify) \_\_\_\_\_

### Question 26

**From which observation stations or systems do you take data, if any?**

(mandatory)

\_\_\_\_\_

### Question 27

**Which data from observation and modelling are still missing?**

(mandatory)

\_\_\_\_\_

### Question 28

**The data you usually use or are looking for are:**

(more than one option can be selected)

(mandatory)

- Past events
- Short term forecasts
- Others (please specify) \_\_\_\_\_

### Question 29

**What is the data frequency you would need?**

(more than one option can be selected)

(mandatory)

- Hourly
- Daily
- Yearly
- Others (please specify) \_\_\_\_\_

**Question 30**

**Which data format do you normally use?**

(more than one option can be selected)

(mandatory)

- NetCDF
- GIS
- Ascii
- Spreadsheet
- Others (please specify) \_\_\_\_\_

**Question 31**

**Which outputs should the CASCADE web tool produce for you?**

(more than one option can be selected)

(mandatory)

- Tables
- Maps
- Trend timeseries
- Vertical profiles
- Others (please specify) \_\_\_\_\_

**Question 32**

**Which are the main functionalities of applications/decision support systems you usually use that you would like to see also in the CASCADE web tool?**

(Select the most important 3)

(mandatory)

- Easy navigation
- Data/maps interpretation
- Selection of area of interest
- Support to planning
- Selection of management options
- Support to monitoring activities
- Alerts management
- Others (please specify) \_\_\_\_\_

**Section 5 – Final information**



**Question 33**

**Would you like to state your name, affiliation and email?**

(not mandatory)

First Name and Last Name \_\_\_\_\_

Affiliation \_\_\_\_\_

Email address \_\_\_\_\_

**Question 34**

**Would you like to be kept informed about the CASCADE activities?**

(not mandatory)

Yes

No

**Question 35**

**Do you have any comment to leave to us?**

(not mandatory)

\_\_\_\_\_

**Question 36**

**I AUTHORIZE THE PROCESSING OF DATA TO RECEIVE INFORMATION ON  
FUTURE ACTIVITIES RELATED TO THE CASCADE PROJECT**

(mandatory)

Yes

No