

WP 1	Milestone No. 13.3
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MARBEFES Project

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1. Introduction

This report, prepared under Milestone 13.3 of the MARBEFES project, presents the outcomes of the third round of stakeholder consultations conducted in Mallorca as part of Work Package 1 (WP1). These consultations are a core element of WP1, which is dedicated to ensuring inclusive and effective stakeholder engagement across the project's Broad Belt Transact (BBT) case studies.

In the first round of stakeholder engagement, WP1 focused on identifying the “priority components” of the coastal and marine environments within each BBT, as perceived by a diverse range of local stakeholders. The insights gained during this initial consultation phase have provided valuable input to several other project WPs. In the previous milestones, this process has been reported for the visits to Svalbard and Porsanger in the “Arctic region”; the Bay of Gdańsk, the Curonian lagoon and the Finnish archipelago in the “Baltic region”; Dublin & Liverpool, Belgium (Doggerbank) and Santander in the “Atlantic region”; and Mallorca, Sardinia and Crete in the “Mediterranean region”.

The second phase marked a continuation of that participatory approach, with follow-up consultations being held in each of the BBTs. The key objectives of this round were to review and validate the outcomes of the first consultations, and to gather input from the stakeholders on the conceptual scenarios, tools, and transition pathways under development with other work packages, with the aim to co-design these further. The findings of these engagements, have been documented respectively in Milestones 6 to 10.2.

The insights gained from the second round of consultations provided a robust foundation for the further refinement of the MARBEFES tools is the focal point, to be carried out in collaboration with project researchers across the WPs. In the third and final phase of the project the focus of the co-design process with stakeholders shifted from gathering inputs to testing and reviewing the near-final prototypes of the tools developed within the project.

The appendices include a list of participating stakeholders, a detailed program outline, the flyer distributed in advance of the workshops, the PowerPoint slides presented (only those different from the ones in Milestone 13.1, Laros et al., 2026), and the complete results from the Mentimeter sessions held during the workshop.



2. Materials and Methods

2.1 Preparation

The approach to the Preparation and the Content and Format of Consultations closely followed the procedures outlined in Milestone 13.1 (Laros et al., 2026).

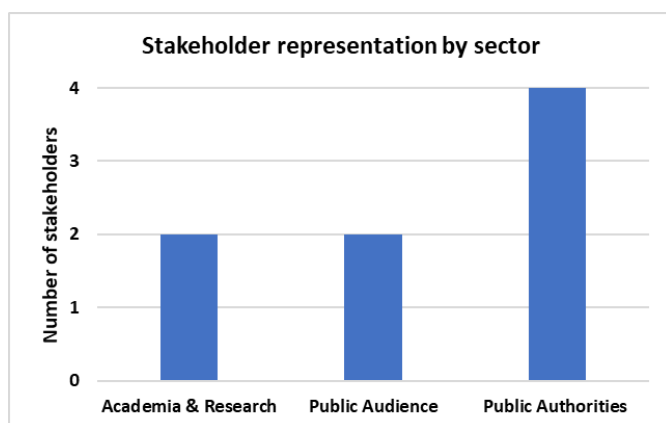
2.2 Content and Format of Consultations

The consultation workshop was conducted on Mallorca, on 6 March 2026, for the Balearic Islands BBT. Stakeholder invitations were managed by the local Contact Persons through the distribution of flyers (Appendix 3). This process resulted in the participation of eight stakeholders (Appendix 1).

The composition of the stakeholders shows a varied image, with differences in prior engagement, professional affiliation, age, and gender, that may influence the range of perspectives in the consultation outcomes.

Only one of the stakeholders has been participating already in the first round ($n = 1$), whilst the seven other stakeholders were completely new to the project. In the second round of stakeholder consultations, the Balearic BBT was not visited and therefore none of the stakeholders were involved in the second round.

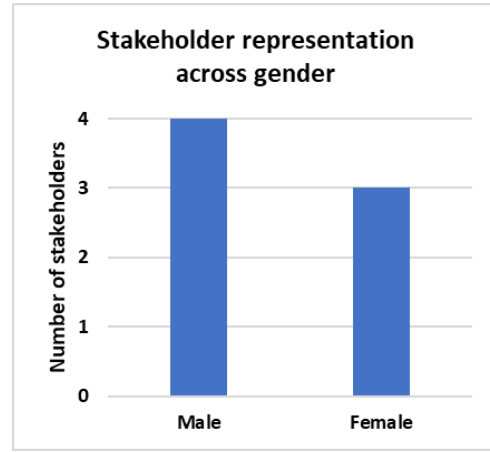
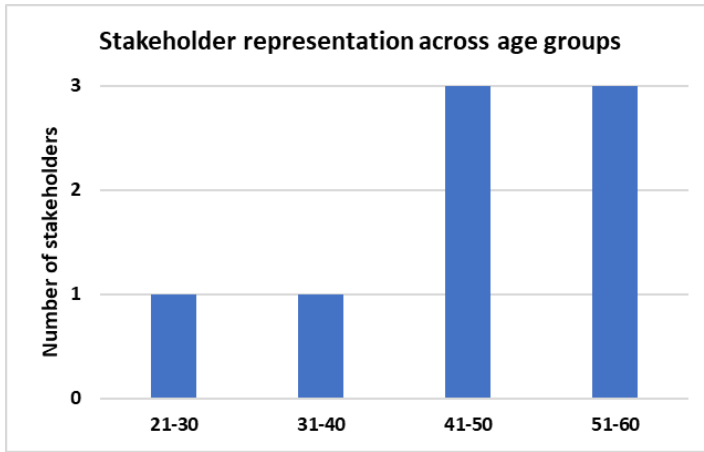
Since the focus of this workshop was on testing the tools' usefulness and usability for different stakeholder groups, including those unknown to the project before, the relatively high proportion of new participants does not affect the interpretation of the results.



The majority of stakeholders represented the Public Authorities ($n = 4$), followed by both Academia & Research ($n = 2$) and Public Audience (in this case NGO's) ($n = 2$) (Fig.1).

Figure 1. Professional sectors of the stakeholders present at the workshop

Participating stakeholders were distributed across several age groups (Fig. 2). The largest representations were in the 41-50 and 51-60 age categories ($n = 3$ each). No stakeholders were represented in age groups above 60. Furthermore, participating stakeholders were mostly male (figure 4, $n = 5$), with three participating stakeholders being female (Fig. 3).



Figures 2 (left) and 3 (right). Age and gender distribution of participating stakeholders

All participating stakeholders provided informed consent through signed consent forms. In addition, HuFoSS, acting as workshop chair, verbally informed participants that all workshop outputs would be anonymized. During the interactive sessions, in which stakeholder feedback and input were collected, participants' professional categories, age and gender were recorded. The provision of personal data was entirely voluntary, and participants were free to skip these questions during the Mentimeter sessions. Individual responses in the Mentimeter sessions, as well as the identities of participants and their affiliated organizations, remain non-identifiable. These procedures are fully compliant with the projects' GDPR and IPR requirements, as outlined in the Informed Consent documentation, which were signed by all stakeholders at the start of the workshop (Laros et al., 2026; Laros & Hummel, 2026).

The workshop lasted approximately half a day. It started at 9:00 and concluding around 13:30 (Appendix 2). The programme began with a general welcome, followed by an introduction to the MARBEFES project and the specific objectives of the workshop. The presentation used during the workshop was largely similar to that presented in Milestone 13.1 (Laros et al., 2026). The few site-specific slides that differed from those in Laros et al. (2026) are included in Appendix 4. Finally, participants were informed about the potential benefits of their involvement in the consultation process.



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3. Results

This section presents selected initial insights derived from the interactive sessions—primarily conducted via Mentimeter—during the third round of stakeholder consultations held in Mallorca for the Balearic BBT.

Each Mentimeter session began with the same introductory questions: "Which professional sector do you represent?"; "What is your age?"; and "What is your gender?". As the responses to these questions have already been included in [section 2.2](#), they are not repeated in this section. The figures included here relate exclusively to the multiple-choice and rating-scale questions related to the tools. While the open-ended questions included in Appendix 6 are not repeated here specifically, the answers are discussed narratively, as they are often particularly informative for interpreting the quantitative results presented in the figures.

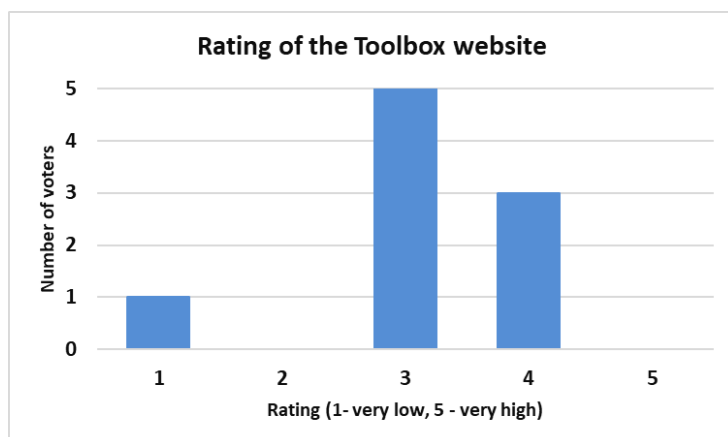
It is important to note that the stakeholder workshops conducted as part of this milestone involved a relatively small number of participants. Consequently, the findings presented in this report should not be interpreted as definitive conclusions or insights applicable to the broader stakeholder population. Rather, they provide a reflection of the ideas, perspectives, and viewpoints of the specific group of stakeholders who were present at the workshops. While these insights offer valuable quantitative input into discussions on marine governance and management priorities, they should be viewed as indicative rather than definitive. Further engagement with a broader range of stakeholders would be required to validate and expand upon these perspectives for the local scale, whereas at larger scale, in combination with the results of the other BBTs, and of similar consultations at locations of the sister-project Marine SABRES, even stronger funded conclusions may be drawn.

The feedback obtained from the stakeholders after each interactive session was primarily collected through Mentimeter. A complete account of the raw results from the Mentimeter sessions is provided in Appendix 5.

3.1. The MARBEFES Toolbox website

The first interactive session focused on the MARBEFES Toolbox website for stakeholders (Appendix 5.1). The objective of this session was to introduce the website and its benefits, and allow participants to develop an understanding of the toolbox through individual exploration. Following a brief on-screen demonstration and individual hands-on testing, feedback was collected by a group discussion and a Mentimeter survey.

Q: How do you rate the Toolbox website?

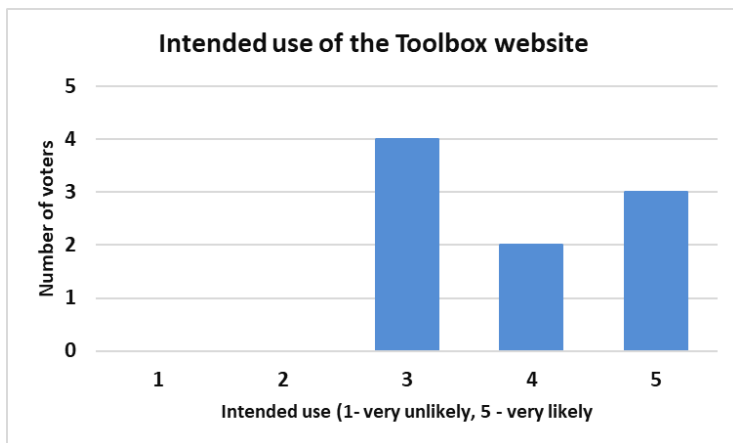


Most participants gave the website a moderate rating (3) (Fig. 5). Two stakeholders assigned a high rating and one stakeholder a very low rating (1). Overall, this indicates mixed perceptions of the Toolbox website with a slight lean towards the positive ratings.

Figure 4. Rating of the Toolbox website by stakeholders



Q: What is the likelihood of you using the Toolbox website?

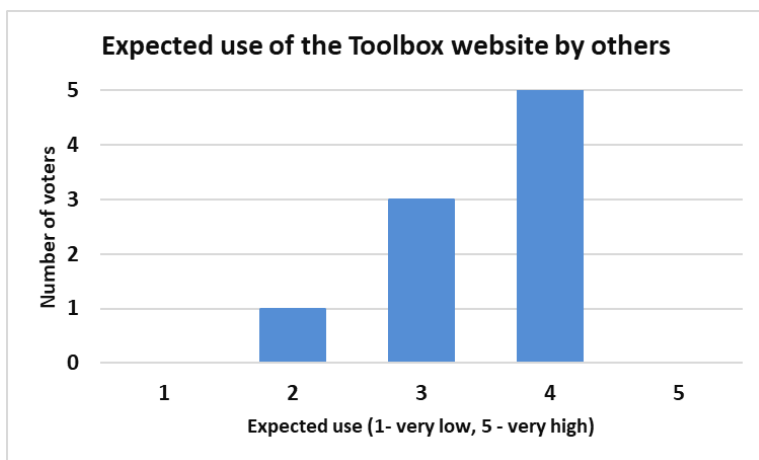


Most participants indicated a ‘moderate likelihood’ (3) of using the Toolbox website, followed by a very likely (3) and then a likely (4) intention of use (Fig. 6). No participants selected any negative answers (1-2). Overall, the distribution suggests predominantly likely intended use among stakeholders.

Figure 5. Intended use of Toolbox website among participants

Participants indicated they would use the Toolbox website to, for example, identify and explore tools and methods relevant to their work, particularly for natural capital accounting, socio-ecological and biodiversity assessments, and economic valuation. Several participants highlighted the value of the toolbox as a catalogue of scientific information and resources, helping them find relevant documents, links, and available data. Others noted they would use it to identify cultural values, better understand ecological processes, and support research or conservation-related work, including marine and coastal environments. Overall, respondents see the toolbox as a practical resource for discovering methods, tools, and information that can support analysis, research, and decision-making in environmental management.

Q: What is the likelihood of others using the Toolbox website?



The majority of stakeholders saw a high (4) likability of others using the Toolbox website (Fig. 6), followed by three moderate and one low estimate. No respondents chose ‘very unlikely’ (1). Overall, this indicates that participants generally consider it likely that others will use the website, although expectations of widespread adoption remain cautious.

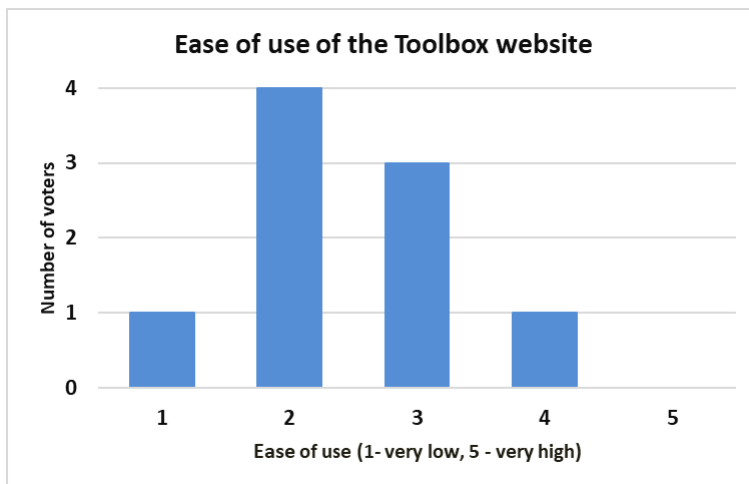
Figure 6. Expected use of the Toolbox website by others



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Q: What is the ease of use of the Toolbox website?



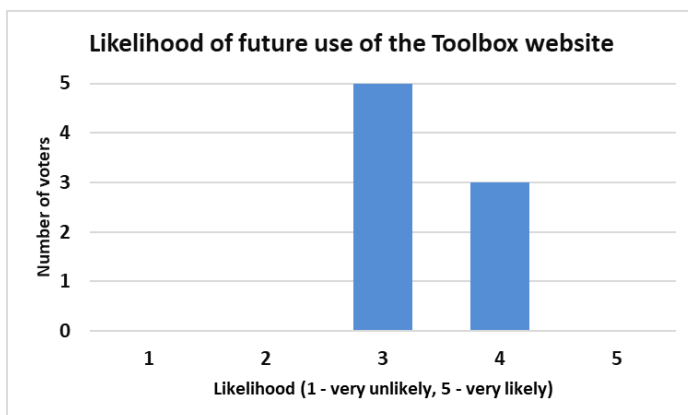
Most participants rated the ease of use of the Toolbox as low (2), followed by three moderate ratings (3) (Fig. 7). Two other participants rated the ease of use as very low (1) and high (4).

Figure 7. The ease in which the stakeholders found the Toolbox website to use

Participants indicated they may be less likely to use the Toolbox website if it remains difficult to navigate or overly complex. Several participants highlighted the need for clearer instructions and tutorials. Others mentioned the platform may be less useful if it does not provide up-to-date information, relevant data for specific regions, or direct analytical functionality, as it currently appears more like a “library of tools” rather than a tool for direct analysis.

Respondents suggest improving the user interface and navigation, making the website more intuitive and user-friendly, including improved visuals, and a less “child-like” design. Other suggestions included adding additional language options and improving navigation features such as clearer links and opening tools in new windows.

Q: How likely are you to use the Toolbox website in future projects?



Of the participants, most rated their likelihood of future use as moderate (3), with some opting for a high likelihood (4) (Fig. 8). No one selected negative (1-2) or very positive (5) scores. This suggests that, although the website is generally seen as useful, some caution exists about its role in these stakeholders’ future projects.

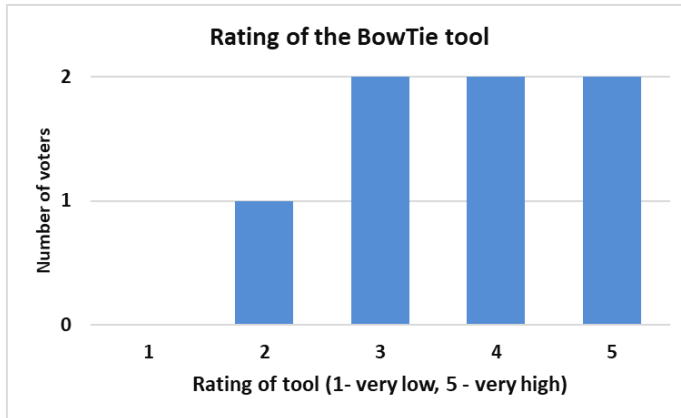
Figure 8. The likelihood of stakeholders using the Toolbox website in future projects

3.2. The BowTie tool

The second interactive session focused on one of the tools in the MARBEFES Toolbox, that is the BowTie tool (Appendix 5.2). The objective of this session was to introduce the conceptual idea behind a ‘Bow-Tie’ – which basically helps to organize and manage causes and consequences – and help participants to understand the model through an example. At the same time, this session aimed to allow participants to develop an understanding of the tool through individual exploration. Following a short explanation and individual hands-on testing, feedback was collected by a group discussion and a Mentimeter survey.



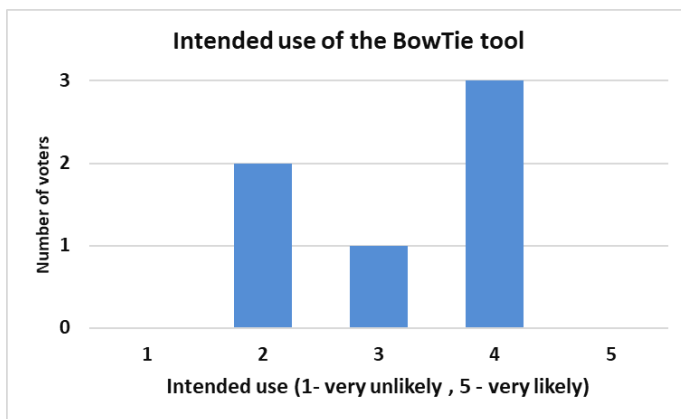
Q: How do you rate this tool?



Ratings of the BowTie tool varied from low (2) to very high (5), indicating a mixed valuation of the tool among the participants (Fig. 9). No very low (1) rating was given and all but one participant chose moderate (3) to very high (5) ratings, indicating an overall positive view on the BowTie tool.

Figure 9. Rating of the BowTie tool by stakeholders

Q: What is the likelihood of you using this tool?

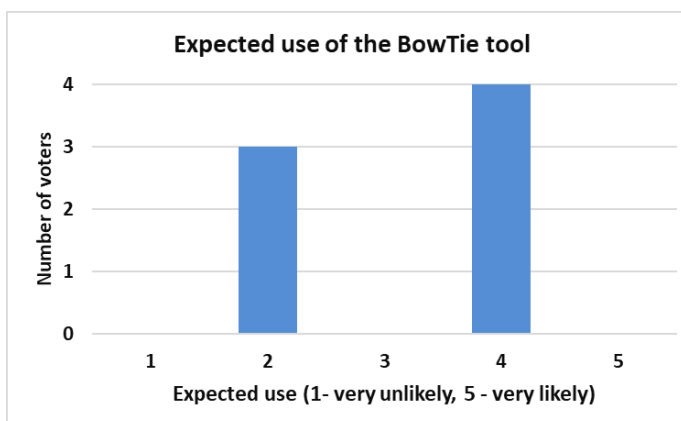


Participants showed mixed intentions regarding current use of the BowTie tool (Fig. 10). Most participants selected a high likelihood (3), followed by a low likelihood (2). One participant selected a moderate likelihood (3). This indicates slightly positive but clearly divided, willingness to adopt the tool.

Figure 10. Intended use of the BowTie tool among participants

Participants indicated they would use the tool primarily as a communication and exploration tool, useful in explaining risks, pressures, and potential impacts of activities to stakeholders. Additionally, participants mentioned its value for structuring or validating the logic of measures, supporting research outputs such as papers, providing a holistic overview of processes and interactions within a system.

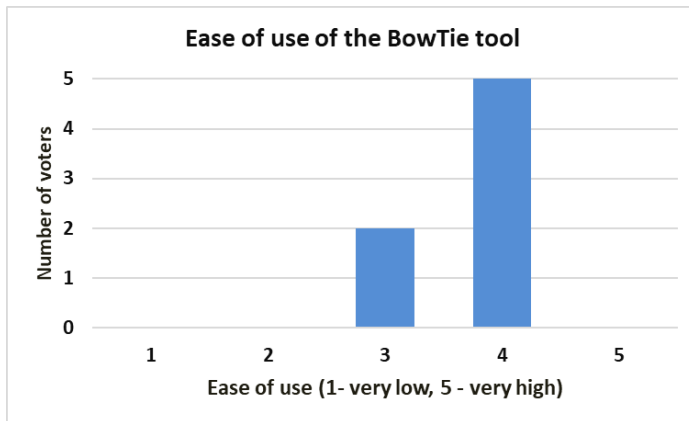
Q: What is the likelihood of others using this tool?



Stakeholders showed mixed expectations regarding the use of the BowTie tool by others (Fig. 11). Most respondents selected a high likelihood (4) while the other selected a lower expected use by others (2).

Figure 11. Expected use of the BowTie tool by others

Q: What is the ease of use of the BowTie tool?

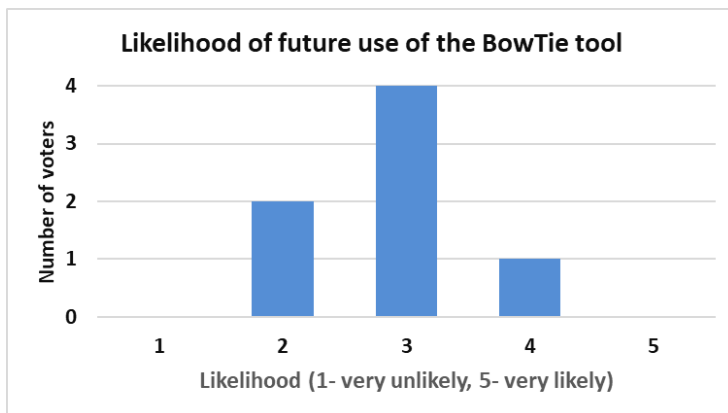


Most of the stakeholders found the BowTie tool easy to use (4), followed by two moderate ratings (3) (Fig.12). No negative ratings (1-2) were selected. Overall, the ease of use of the BowTie tool is thus rated positively.

Figure 12. The ease in which the stakeholders found the BowTie tool to use

Participants indicated they may be less likely to use the tool if the underlying “assumptions behind the model” and the data input are not clearly explained. This raised concerns about limited transparency regarding how the model works. Others noted the tool may be less useful if it does not account for “interactions or uncertainty” or more complex system dynamics, which could reduce confidence in the outputs. To improve the usability of the tool, key recommendations included an ability to start a new assessment while preserving results from previous analyses. Participants also recommended improving automation and adding explanations of the information and assumptions behind the tool, including specifying “the type of data each tool uses”. Finally, it was suggested to “include more case studies” to demonstrate the practical applications of the tool.

Q: How likely are you to use the BowTie tool in future projects



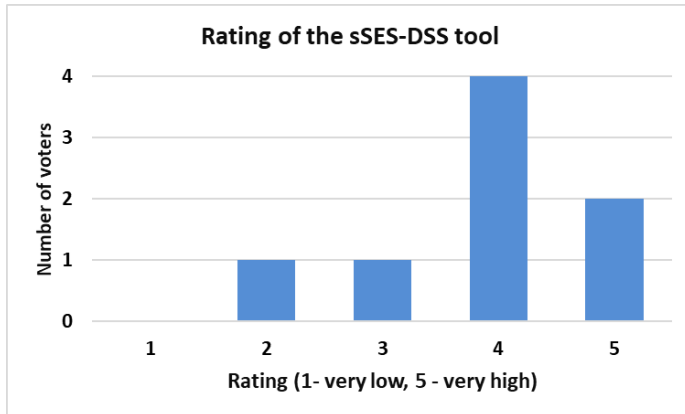
Most stakeholders were moderately positive about using the BowTie tool in the future (3) (Fig. 13). A few respondents selected ‘unlikely’ (1), or ‘likely’ (4). Overall, this suggests that stakeholders are overall not too sure in using the tool in future projects.

Figure 13. The likelihood of stakeholders using the BowTie tool in future projects

3.3. The sSES-DSS tool

The third practical session of the workshop (Appendix 5.3) was dedicated to shortly explain to the stakeholders what a Simple SES and DSS are, how we came to the sSES-DSS tool, the benefits of this tool in managing complex marine systems, and to explain how the tool operates. After a short walkthrough of a pre-filled example and individual hands-on testing, feedback on this subject was gathered through a group discussion and a Mentimeter survey.

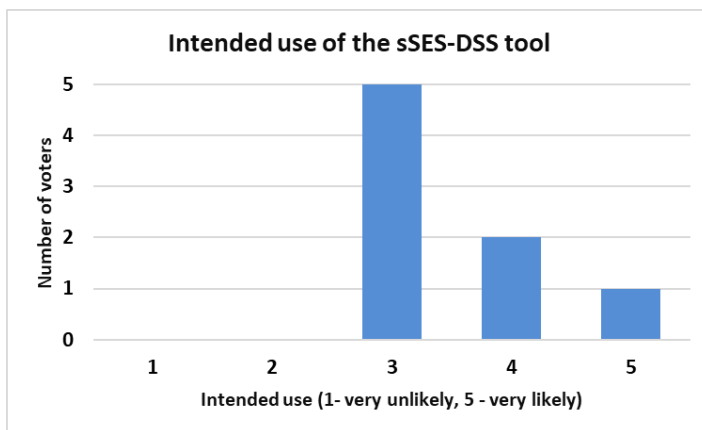
Q: How do you rate this tool?



Stakeholders rated the sSES-DSS tool with some variability (Fig. 14). While most stakeholders gave a high rating (4), two stakeholders gave the tool a very high rating (5), one stakeholder rated it low (2), and another moderately (3). No stakeholders provided a very low rating (1). Overall, the responses indicate varied but slightly positive reception of the tool.

Figure 14. Rating of the sSES-DSS tool by stakeholders

Q: What is the likelihood of you using this tool?

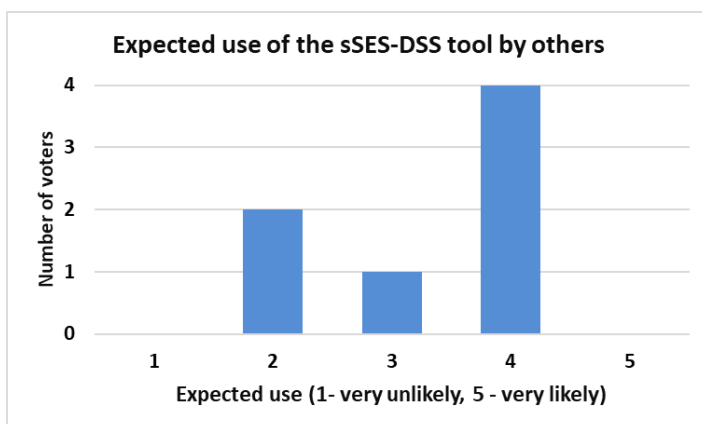


While most participants indicated that they were moderately likely (3) to use the sSES-DSS tool, three stakeholders held a more positive position (2) (Fig. 15). Two stakeholders reported a high likelihood and one a very high likelihood. Overall, the responses suggest moderately positive intentions toward using the tool in practice.

Figure 15. Intended use of the sSES-DSS tool among participants

Stakeholders mentioned various reasons for using the sSES-DSS tool, amongst which are to explore the relationships and dynamics within social ecological systems and to assess the potential effects of different management strategies. Several participants highlighted its value for supporting decision-making and conservation planning, including the management of protected areas. Others noted the tool could facilitate collaboration with stakeholders, enabling model development and scenario testing.

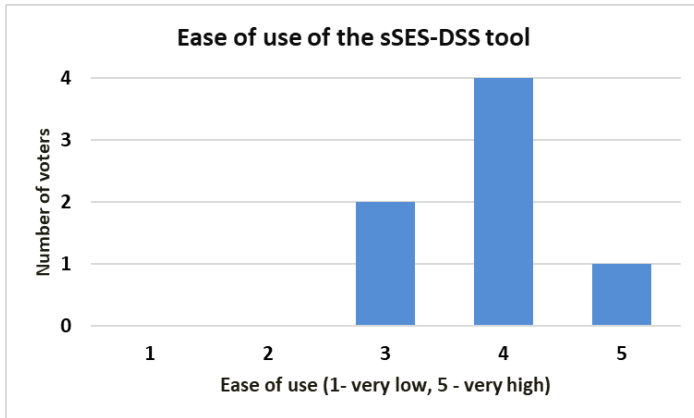
Q: What is the likelihood of others using this tool?



Participants expressed differing views regarding the expected use of the Governance tool by others (Fig 16). While most participants considered it likely (3) that others would use the tool, a few participants found this likelihood to be low (2), or moderate (3). Overall, the responses present a mixed picture, albeit one that leans toward a positive expectation.

Figure 16. Expected use of the sSES-DSS tool by others

Q: What is the ease of use of the sSES-DSS tool?

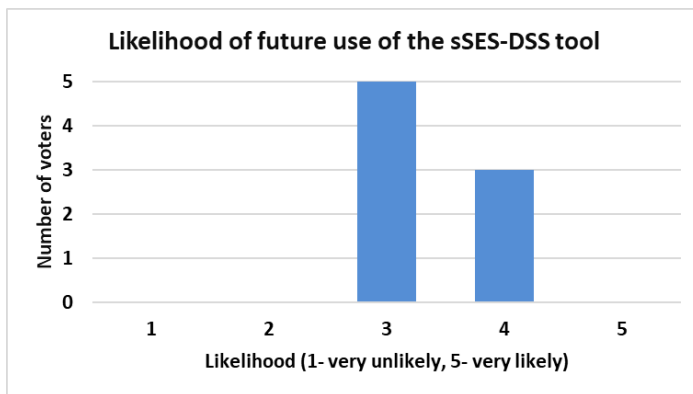


Most participants rated the ease of use of the tool high (4), followed by two more moderate ratings (3) and one very high rating (5) (Fig. 17). No respondents selected negative ratings (1-2) These results indicate a positive rating of the ease of use of the sSES-DSS tool.

Figure 17. The ease in which the stakeholders found the sSES-DSS tool to use

To improve the tool, stakeholders suggested adding more guidelines and documentation, including a user manual and guidance on how to assess and score uncertainty, confidence, and strength of relationships. Several participants emphasized the importance of explicitly displaying uncertainty in the model outputs, for example by visualizing it in the links in the plot. These improvements were seen as important for making the results more robust and easier to communicate to decision-makers.

Q: How likely are you to use the sSES-DSS tool in future projects?



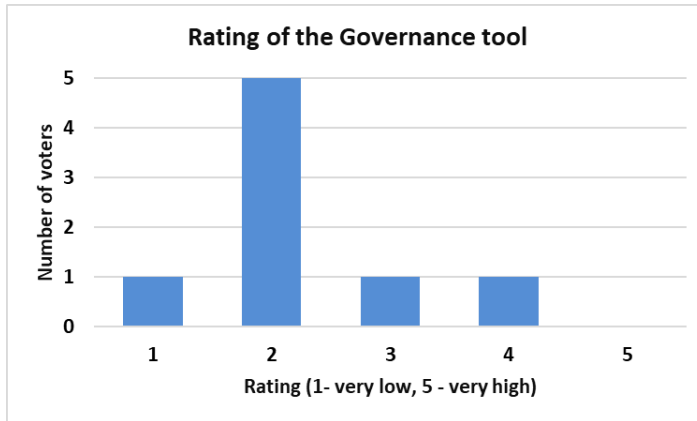
When asked about the likelihood of using the sSES-DSS tool in future projects, most participants voted with 'moderately likely' (3) (Fig. 18). The other participants voted for a likely future use of the tool. This indicates a slightly positive expectation of future use.

Figure 18. The likelihood of stakeholders using the sSES-DSS tool in future projects

3.4. The Governance tool

The final practical session focused on the Governance tool (Appendix 5.4). Stakeholders were first introduced to the development of the tool, its benefits for obtaining an overview of governance organisations, rules and regulations in their area, and its operational principles. Following a brief on-screen demonstration and individual hands-on testing by participants, feedback was collected through a group discussion and a Mentimeter survey.

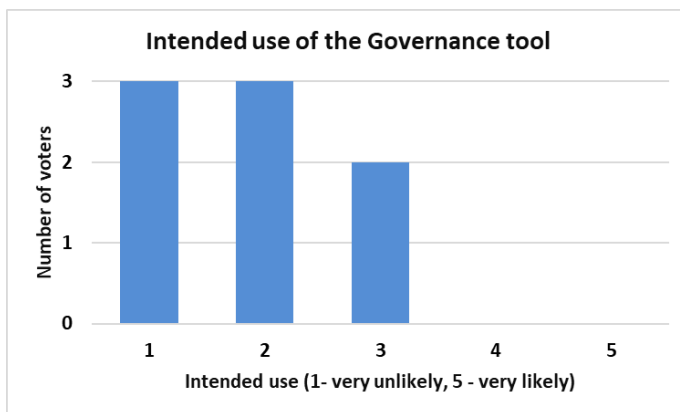
Q: How do you rate this tool?



Stakeholders expressed varied, but slightly negative perceptions of the Governance tool (Fig. 19). Most participants (n=5) rated the tool low (2), with others selecting very low (1), moderate (3), and high (4) ratings (n=1 for all). This shows a negative perception of the Governance tool for these participants.

Figure 19. Stakeholders' ratings of the likeability of the Governance tool

Q: What is the likelihood of you using this tool?

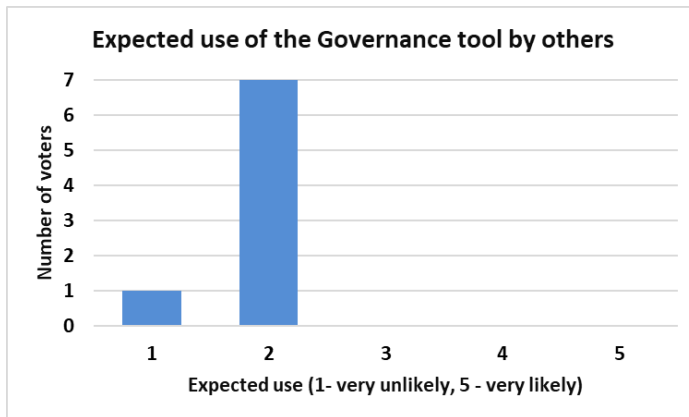


Stakeholders showed negative intentions regarding the use of the Governance tool. An equal number of participants selected a very unlikely and an unlikely intended use (n=3), followed by 2 moderate ratings (Fig. 20). This shows participants do not see themselves using the Governance tool.

Figure 20. Intended use of the Governance tool among participants

Stakeholders indicated they are mainly concerned that the information in the tool is outdated or incomplete, particularly because they found relevant actors, connections, and local stakeholders to be missing in their area. Several participants are concerned the tool will remain static and will not be modified or adapted, which is needed to “keep it alive in time” and “make it dynamic”. Some suggestions made are reviewing processes by stakeholders, editing in working groups, and the “flexibility of data entry and editing. Respondents mentioned that if these concerns are addressed, they might use the tool to “map connections, stakeholders, and regulations”, helping gain an understanding of governance structures and networks.

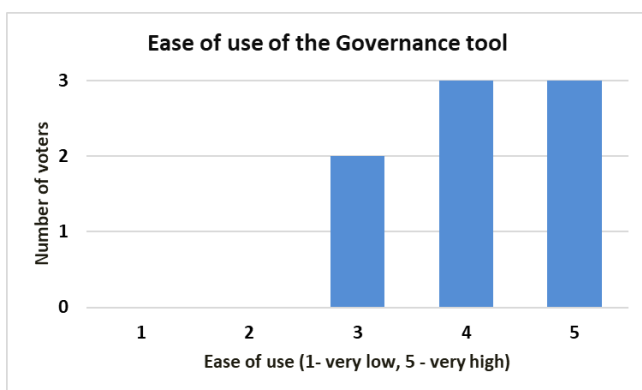
Q: What is the likelihood of others using this tool?



Stakeholders reported a negative expectation that others would use the tool. The majority (n=7) selected an unlikely (2) expectation that the tool would be used by others (Fig. 21). One stakeholder expected a very low (1) likelihood the Governance tool will be adapted by others.

Figure 21. Expected use of the Governance tool by others

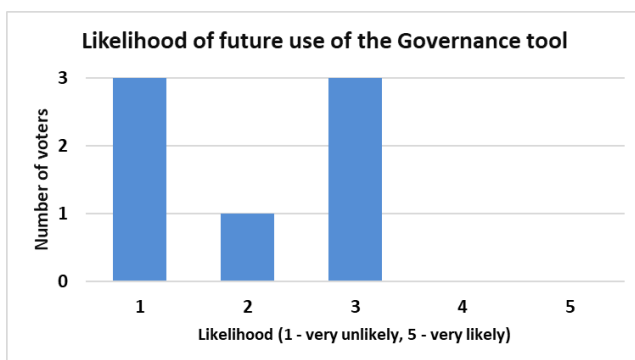
Q: What is the ease of use of the Governance tool?



Stakeholders expressed generally positive views regarding the ease of use of the Governance tool (Fig. 22). Participants rated the ease of use between moderate (3) and very high (5). None opted for negative ratings (1-2).

Figure 22. The ease in which the stakeholders found the Governance tool to use

Q: How likely are you to use the Governance tool in future projects?



Stakeholders' responses regarding the likelihood of future use of the Governance tool were divided, but leaning towards negative intentions. Most participants found future use 'very unlikely' (1), or neutral (3) (both n=3) (Fig. 23). One stakeholder chose 'unlikely' (2), and none selected positive answers (4-5). This shows the negative perception of the likelihood of using the Governance tool in future projects.

Figure 23. The likelihood of stakeholders using the Governance tool in future projects

3.5 Comparing the tools

This section provides a comparative overview on the appreciation of the tools, drawing on the previously discussed stakeholder responses to assess their perceived rating, intended use by stakeholders, expected use by others, ease of use and likelihood of use in future work.

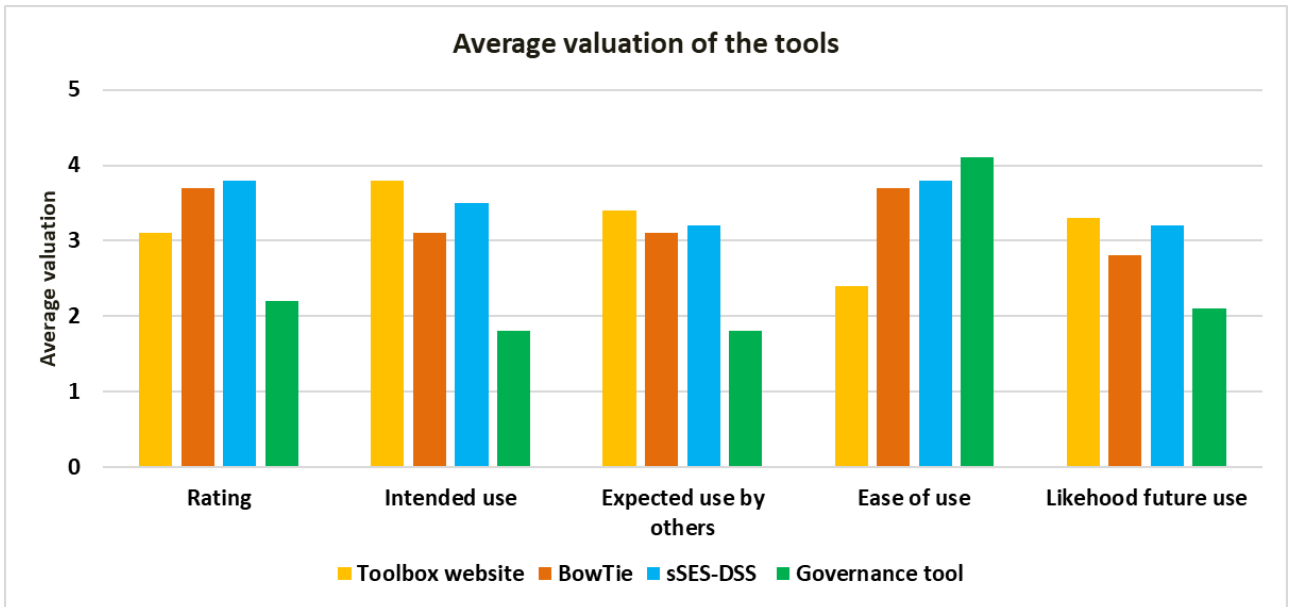


Figure 24. Comparison of the average valuation of each tool

Overall, all four tools—the Toolbox website, BowTie tool, sSES-DSS tool, and the Governance tool — received mixed to moderately positive scores across the evaluated dimensions, with the sSES-DSS scoring slightly higher than the other tools (Fig. 24). Valuation ranged from 1.8 to 4.1, indicating variation in stakeholder perceptions depending on the tool and evaluation criterion. Most scores were around or slightly above three, suggesting generally moderate assessments, although the Governance tool received notably lower scores in several categories.

The sSES-DSS and BowTie tool received relatively favourable overall ratings (3.8 and 3.7 respectively), reflecting a generally positive perception among stakeholders. The Toolbox website obtained moderate scores across most criteria and achieved the highest score for intended use (3.8) and relatively strong scores for expected use by others and likelihood of future use. This suggests stakeholders perceive the website as a practical source with potential for continued use.

In contrast, the Governance tool received considerably lower scores across most evaluation criteria, particularly for intended use and expected use by others (both 1.8). Despite this, it received the highest score for ease of use (4.1) among the tools, indicating that while the tool was perceived as relatively easy to operate, stakeholders may have been less convinced about its relevance or applicability to their work.

The likelihood of future use remained moderate for most tools, with the Toolbox website, BowTie and the sSES-DSS scoring around three, while the Governance tool scored around two. Overall, these results suggest that while stakeholders recognise potential value in the tools, perceptions of their applicability and usability differ, indicating opportunities for further refinement and adaption to stakeholder needs.



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4. Discussion and Conclusion

This section reflects on the outcomes of the Mallorca stakeholder workshop within the broader context of the MARBEFES project. The workshop, part of the third round of stakeholder consultations, provided an opportunity to gather feedback on several prototype tools currently under development. The workshop brought together stakeholders from different background to test the tools on relevance and usability according to stakeholder needs. The discussions and feedback collected through the Mentimeter sessions help inform the next stages of tool refinement.

Overall, the half-day workshop provided valuable insights into how stakeholders perceive the usability, relevance, and potential application of the tested tools.

The results indicate that stakeholders generally recognise the potential value of the tools, although perceptions vary depending on the specific tool and evaluation criterion. The sSES-DSS and BowTie tool received relatively positive overall assessments, suggesting that participants see potential for these tools in, as they mention, system exploration, communication, and decision-making processes. The Toolbox website also received moderate positive scores and was viewed as a useful resource for accessing tools and information. In contrast, the Governance tool received lower scores in several categories, indicating that stakeholders may currently perceive it as less directly applicable or useful to their work, despite being considered relatively easy to use.

Participants emphasised, for an improvement of the tools, mainly the importance of clearer explanations of underlying assumptions, improved guidance on how to use the tools, better visuals of confidence or uncertainty, and more intuitive and user-friendly user navigation. These suggestions underline the importance of usability and transparency in ensuring that the tools are accessible to a broad range of potential users.

Moreover, several participants indicated the need to secure that the information is up to date in the Toolbox and the Governance tool, in order to keep those tools “alive in time” and “dynamic”. To this end, the stakeholders suggested to install working groups for editing the tools.

The workshop reaffirmed the value of stakeholder engagement within the MARBEFES co-development process. By involving stakeholders directly in testing and evaluation of the tools, the project can incorporate practical perspectives from potential end users.

Finally, the feedback gathered during the Mallorca workshop supports the continued development and validation of the MARBEFES tools as they progress through higher Technology Readiness Levels (TRLs). The consultation provided an opportunity to test the tools in a stakeholder setting, contributing to the transition of the tools toward TRL 6, where they are demonstrated in a practical environment.



5. Acknowledgements

This report, developed under Milestone 12.3 of the MARBEFES project, would not have been possible without the invaluable contributions of many individuals and organizations. We would like to express our sincere gratitude to the stakeholders who participated in the third round of consultations held in Mallorca. Their thoughtful insights and active engagement have played a crucial role in the success of this initiative.

In particular, we would like to thank the following individuals and organisations for their active participation: Maria Valens- Cabrera National park, Estanislao de Simon- Cabrera National park, Ivan Ramos, Torrens - Balearic Islands Government, Marta Albo Puigserver - IEO-CSIC, REDEIA (National electrical company), Lucian Fernandez Slade - Clean Wave Foundation, Marcial Bardolet - Balearic Government, Raquel Vaquer Sunyer - Marilles Foundation.

We also extend our thanks to the local contact persons, Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, and Ana Ruiz Frau, who facilitated the stakeholder outreach and invitations, and translation both in communications before, during, and after the workshop ensuring the successful participation of a diverse group of stakeholders. Their efforts in coordinating the consultations were essential to the overall process.

We are also grateful to the members of the MARBEFES project team for their tireless efforts in developing and finetuning the tested tools. Their collaboration has been instrumental in advancing our understanding of the socio-ecological systems and the governance challenges faced by coastal communities.

Finally, we acknowledge the funding support for the MARBEFES project by the European Commission, which has made this important work possible. MARBEFES is funded by the European Union's Horizon Europe programme under grant agreement No. 101060937.

Without the dedication and hard work of all involved, this report would not have been achievable.



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6. References

Laros, V., Matajinimvar, H., Van der Vliet, D., Lotzkes, A., Poškutè, V., Hummel, H. (2026). MARBEFES WP1: Stakeholder involvement – Milestone 13.1: Results of the Third Stakeholder Consultations in Crete, Greece. HuFoSS, Roosendaal, the Netherlands, pp. 57.

Van der Vliet, D., Hummel, H. (2026). MARBEFES Milestone 13.3a. Action sheets with signatures of the participants. BBT: Balearic [Confidential]. HuFoSS, Roosendaal, the Netherlands, pp. 9.



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7. Appendices

The following pages contain appendices:

Appendix 1 provides a list of all stakeholders who participated in the workshop held in the Balearic

Appendix 2 includes a detailed meeting agenda of the workshop

Appendix 3 includes the information flyer used to inform stakeholders

Appendix 4 presents the PowerPoint slides

Appendix 5 (Sections 5.1 – 5.4) contains, in chronological order, the results of the Mentimeter session



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Appendix 1. Stakeholder participation list

Name	Organisation name	Category	Gender	Date	Consent project partners	Consent third parties	Representatives HuFoSS	Local representatives
Maria Valens	Regional Agricultural, Fisheries and Rural Environment Authority	Authorities	F	06-03-2026	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet	Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, Ana Ruiz Frau
Estanislao de Simon	Regional Agricultural, Fisheries and Rural Environment Authority	Authorities	M	06-03-2026	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet	Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, Ana Ruiz Frau
Ivan Ramos Torrens	Natural Environment Management Balearic Islands Government	Authorities	M	06-03-2026	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet	Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, Ana Ruiz Frau
Marta Albo Puigserver	IEO-CSIC	Academia and research	F	06-03-2026	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet	Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, Ana Ruiz Frau
	REDEIA	Academia and research	M	06-03-2026	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet	Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, Ana Ruiz Frau
Lucian Fernandez Slade	Clean wave foundation	NGO	M	06-03-2026	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet	Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, Ana Ruiz Frau
Marcial Bardolet*	Regional Agricultural, Fisheries and Rural Environment Authority	Authorities	M	06-03-2026	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet	Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, Ana Ruiz Frau
Raquel Vaquer Sunyer	Marilles Foundation	NGO	F	06-03-2026	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet	Silvia de Juan, Hilmar Hinz, Maria del Mar Gil, Ana Ruiz Frau

* = Stakeholder has also participated in the first round of consultations



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Appendix 2: Detailed Meeting Agenda

Date: 6 March 2026

Location: Mallorca, Balearic BBT

Morning 9:00 – 13:30

- 9:00 Welcome and introduction to the project
- 9:15 MARBEFES toolbox
- Presentation
 - Hands-on testing
 - Collecting feedback
- 10:45 BowTie tool
- Presentation
 - Hands-on testing
 - Collecting feedback
- 11:30 COFFEE BREAK
- 11:45 sSES-DSS tool
- Presentation
 - Hands-on testing
 - Collecting feedback
- 12:45 Governance tool
- Presentation
 - Hands-on testing
 - Collecting feedback
- 13:30 End



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STAKEHOLDER CONSULTATIONS – 3RD ROUND

Join us to test marine tools

You helped shape them... now test them!

06/03/2026 | START AT 9AM

📍 LOCATION: IMEDEA, ESPORLES

Why join?

- Get a first look at the interactive tools developed from your feedback
- See how they can support your work in management, policy, or conservation
- Shape the final version of tools
- Connect with other stakeholders and project partners

Together, we are turning ideas into action!

Scan me for more info





Get involved!

In the first two rounds, you helped identify priorities and shape the tools that help to understand your environment and manage it.

Now, in this third round, your feedback will help us fine-tune and validate them – making sure they are practical, user-friendly, and ready for real-world application.

Together, we ensure these tools truly work for you, your community, and the marine environment.

Meeting agenda

09:00	Welcome, and introduction to the project
09:15	Presentation of the MARBEFES tools
09:30	Hands-on testing
10:30	COFFEE BREAK
11:00	Further testing and short discussion
12:30	Collecting your feedback
13:00	LUNCH

If you have any questions, please contact (local contact person xx)



Appendix 4. Presentation PowerPoint slides

Only those slides are shown that are different for the slides in Laros et al. (2026).



MARBEFES

MARineBiodiversity and Ecosystem Functioning leading to Ecosystem Services

3rd Round of Stakeholder Consultations

Stakeholder appraisal and feedback on WP outcomes

December 2025 to March 2026

Esporles, Mallorca, Spain

6 March 2026

Dominga van der Vliet, Hanie Matajinimvar, Herman Hummel,
Alissa Lotzkes, Veronika Poškutè, Vivien Laros
HuFoSS, Roosendaal, the Netherlands

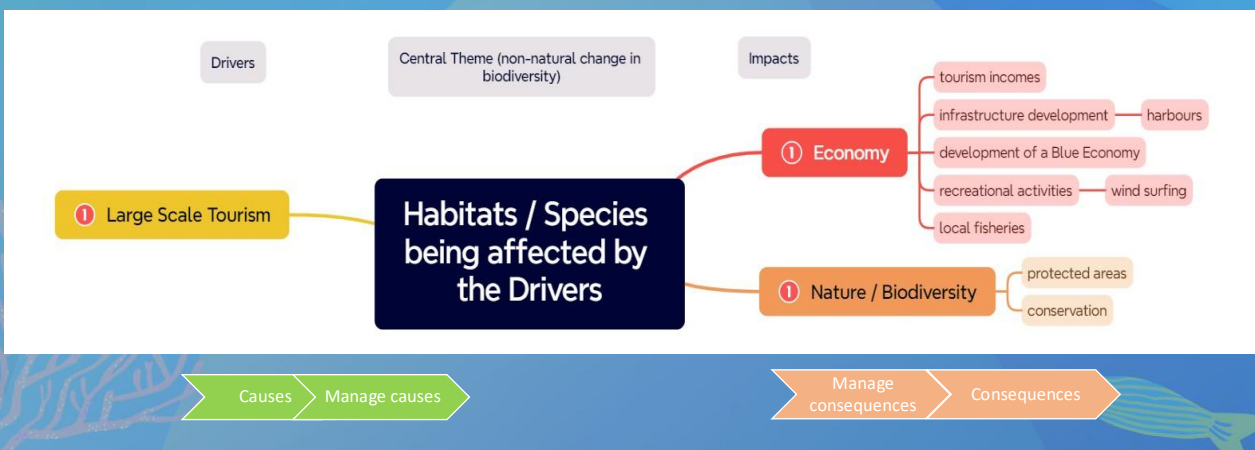



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Example of Bow-tie analyses Spain

Example: Large-scale Tourism



Drivers

Central Theme (non-natural change in biodiversity)

Impacts

① Large Scale Tourism

Habitats / Species being affected by the Drivers

① Economy







- tourism incomes
- infrastructure development — harbours
- development of a Blue Economy
- recreational activities — wind surfing
- local fisheries

① Nature / Biodiversity

- protected areas
- conservation

Causes → Manage causes

Manage consequences → Consequences


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Appendix 5. Results of Mentimeter Sessions

Appendix 5.1. The Toolbox website

Question type	Location	SH	Q1. What professional sector are you representing?
Multiple	Mallorca	1	NGO / Non-profit
Choice	Mallorca	2	NGO / Non-profit
	Mallorca	3	Authorities (governance / policy)
	Mallorca	4	Academia / Research
	Mallorca	5	
	Mallorca	6	Authorities (governance / policy)
	Mallorca	7	Private sector / SME
	Mallorca	8	
	Mallorca	9	Academia / Research
	Mallorca	10	Academia / Research
	Mallorca	11	Authorities (governance / policy)
	Question type	Location	SH
Open-ended	Mallorca	1	30
	Mallorca	2	46
	Mallorca	3	51
	Mallorca	4	37
	Mallorca	5	
	Mallorca	6	51
	Mallorca	7	45
	Mallorca	8	
	Mallorca	9	46
	Mallorca	10	54
	Mallorca	11	53
Question type	Location	SH	Q3. What is your gender?
Multiple	Mallorca	1	Male
Choice	Mallorca	2	Female
	Mallorca	3	Male
	Mallorca	4	Female
	Mallorca	5	
	Mallorca	6	Male
	Mallorca	7	Male
	Mallorca	8	
	Mallorca	9	Female
	Mallorca	10	Male
	Mallorca	11	Male
	Question type	Location	SH
Scale	Mallorca	1	1
	Mallorca	2	4
	Mallorca	3	3
	Mallorca	4	3
	Mallorca	5	
	Mallorca	6	4
	Mallorca	7	3
	Mallorca	8	
	Mallorca	9	3
	Mallorca	10	3
	Mallorca	11	4
Question type	Location	SH	Q5. I will use this website: (1-5)
Scale	Mallorca	1	5
	Mallorca	2	3
	Mallorca	3	4
	Mallorca	4	3
	Mallorca	5	
	Mallorca	6	3

Mallorca 7 5
 Mallorca 8
 Mallorca 9 3
 Mallorca 10 4
 Mallorca 11 5

Question type Location SH Q6. Others will use this website: (1-5)

Scale Mallorca 1 2
 Mallorca 2 3
 Mallorca 3 4
 Mallorca 4 4
 Mallorca 5
 Mallorca 6 3
 Mallorca 7 4
 Mallorca 8
 Mallorca 9 3
 Mallorca 10 4
 Mallorca 11 4

Question type Location SH Q7. Why will you use this website?

Open-ended Mallorca 1 To help me with natural capital accounting and valuation.
 Mallorca 1 To help identify cultural values and how they are impacted.
 Mallorca 2 Because it has a lot of tools that might be useful for a better understanding of ecological processes
 Mallorca 3 As catalog of scientific information if is easy to find documents and links (URLs).
 Mallorca 4 To explore potential tools for analysis on socio-ecological biodiversity assessments and economic assessments. Or to get ideas of potential of data available and data I have for adaptation to climate.
 Mallorca 5
 Mallorca 6 is useful for my work
 Mallorca 7 to find a tool to developed a resersearch
 Mallorca 8
 Mallorca 9 Explore methods
 Mallorca 10
 Mallorca 11 Because it is useful for my job, related to conservation of natural espaces, including marine habitats

Question type Location SH Q8. What could be a possible reason why you will not use this website?

Open-ended Mallorca 1 If it remains clunky or if there is not enough robust data for my region to gain robust I sights for a specific local context.
 Mallorca 2 If it's too complicated to get results and to navigate all tools
 Mallorca 3 Not get the most new information or actual papers.
 Not sure if you get all the information for a governance strategy with a global overview.
 Looks like is better for a concrete information.
 Mallorca 4 Because is too complicated to understand how to apply it to my case study/area.
 Mallorca 5
 Mallorca 6 N/A
 Mallorca 7 website is close to a "library of tools", but it not a proper tool to use directly
 Mallorca 8
 Mallorca 9 To analyse new data
 Mallorca 10 Limited instructions...cumbersome to use, complexity lack of tutorials
 Mallorca 11 You should try to make it a bit more friendly. It contains many information, and it must be well structured, to make easy its use.

Question type Location SH Q9. What should we improve in the next version of the website?

Open-ended Mallorca 1 User interface. AI tool seems unnecessary of there is a well designed search page.
 Mallorca 2 Make it easier to navigate, friendly use
 A clear user manual
 Mallorca 3 Home version design.. more serious and better pictures of nature. Funcionality and the text frame in response. Should be redefined. The internal architecture is great.. but the home not so much.
 Mallorca 4 The organization of the different tools to access more directly to your own theme interest.

Mallorca	4	NA yet
Mallorca	5	
Mallorca	6	Add other languages, navigation buttons to go home page
Mallorca	7	bottom to the home page other language IA other language open in a new window when you click into the tool
Mallorca	8	
Mallorca	9	More user friendly, more evident how to use for the users case study
Mallorca	10	Less child like design, improved navigation.
Mallorca	11	Better structure, tutorials explaining how to get maximum benefit of the different tools, possible applications in the real world, and so on.

Question type	Location	SH	Q10. Did any words or phrases on the website confuse you?
---------------	----------	----	---

Open-ended	Mallorca	1	
	Mallorca	2	No
	Mallorca	3	- Who is Marbie? - Who is the star? - The text down the web? - Is a toolbox or a catalog of toolboxes?
	Mallorca	4	NA Yet
	Mallorca	5	
	Mallorca	6	No
	Mallorca	7	
	Mallorca	8	
	Mallorca	9	No
	Mallorca	10	No
	Mallorca	11	Maybe, you can unify the diferents issues in blocks, like all the related with economy (7X), ecology (5X), cultural, society (99), ...

Question type	Location	SH	Q11. For what questions in your daily work would you use this website to answer?
---------------	----------	----	--

Open-ended	Mallorca	1	How do I put a value on the benefits created by a restoration project?
	Mallorca	2	What are the areas of greater ecological importance in the Balearic Sea? How to deal with coastal eutrophication? or how to predict it?
	Mallorca	3	Yes, specific complex questions about scientific species, habitats, systems or geographical information.. Get all the data from an area.
	Mallorca	4	How I can combine different data sources quantitative/qualitative and from different dimensions, ecological social and economic?
	Mallorca	5	
	Mallorca	6	Impacts of activities in protected areas
	Mallorca	7	as a "google" for a assesment that I might need in a specific area or specific topic
	Mallorca	8	
	Mallorca	9	Perhaps to organise workshops with srakeholdees
	Mallorca	10	No
	Mallorca	11	Often, politicians wants to know which is the real effect of our actions on the society. This can be a good tool to evaluate it. MARBEFES pretends to unify all these items and to get a whole vision.

Question type	Location	SH	Q12. The website is easy to use: 1-5
---------------	----------	----	--------------------------------------

Scale	Mallorca	1	1
	Mallorca	2	2
	Mallorca	3	4
	Mallorca	4	2
	Mallorca	5	
	Mallorca	6	3
	Mallorca	7	3
	Mallorca	8	
	Mallorca	9	2
	Mallorca	10	2
	Mallorca	11	3

Question type	Location	SH	Q13. How likely are you to use the website in future projects?
---------------	----------	----	--

Mallorca	1	
----------	---	--

Multiple Choice	Mallorca	2	Unsure
	Mallorca	3	Likely
	Mallorca	4	Unsure
	Mallorca	5	
	Mallorca	6	Likely
	Mallorca	7	Unsure
	Mallorca	8	
	Mallorca	9	Unsure
	Mallorca	10	Likely
	Mallorca	11	Unsure

Question type	Location	SH	Q14. Describe your experience with the website in two words:
---------------	----------	----	--

Open-ended	Mallorca	1	Overwhelming, interesting.
	Mallorca	2	Technical, interesting
	Mallorca	3	Easy in the home, technical in the architecture.
	Mallorca	4	Interesting
	Mallorca	5	
	Mallorca	6	interesting, useful
	Mallorca	7	Unambiguous, holistic
	Mallorca	8	
	Mallorca	9	Has potential
	Mallorca	10	Potentially useful
	Mallorca	11	Useful, improvable

Appendix 5.2. The BowTie tool

Question type	Location	SH	Q1. What professional sector are you representing?
Multiple-Choice	Mallorca	1	NGO / Non-profit
	Mallorca	2	NGO / Non-profit
	Mallorca	3	Authorities (governance / policy)
	Mallorca	4	Academia / Research
	Mallorca	5	
	Mallorca	6	Academia / Research
	Mallorca	7	Academia / Research
	Mallorca	8	Authorities (governance / policy)
Question type	Location	SH	Q2. What is your age? If you do not wish to answer this question you can skip it.
Multiple-Choice	Mallorca	1	30
	Mallorca	2	46
	Mallorca	3	51
	Mallorca	4	37
	Mallorca	5	
	Mallorca	6	46
	Mallorca	7	54
	Mallorca	8	53
Question type	Location	SH	Q3. What is your gender?
Multiple-Choice	Mallorca	1	Male
	Mallorca	2	Female
	Mallorca	3	Male
	Mallorca	4	Female
	Mallorca	5	
	Mallorca	6	Female
	Mallorca	7	Male
	Mallorca	8	Male
Question type	Location	SH	Q4. I rate this tool : (1-5)
Scale	Mallorca	1	5
	Mallorca	2	4
	Mallorca	3	3
	Mallorca	4	4
	Mallorca	5	
	Mallorca	6	2
	Mallorca	7	3
	Mallorca	8	5
Question type	Location	SH	Q5. I will use this tool: (1-5)
Scale	Mallorca	1	2
	Mallorca	2	4
	Mallorca	3	
	Mallorca	4	4
	Mallorca	5	
	Mallorca	6	3
	Mallorca	7	2
	Mallorca	8	4
Question type	Location	SH	Q6. Others will use this tool: (1-5)
Scale	Mallorca	1	2
	Mallorca	2	2
	Mallorca	3	4
	Mallorca	4	4
	Mallorca	5	
	Mallorca	6	4
	Mallorca	7	2
	Mallorca	8	4
Question type	Location	SH	Q7. Why will you use this tool?
Open-ended	Mallorca	1	As a communication tool, to explain risks of certain activities to businesses, local authorities and other stakeholders.

Mallorca	2	To have an idea of possible effects of the measures
Mallorca	2	Explore possible consequences of different pressures
Mallorca	3	Create a paper or validate the logic of the measures.
Mallorca	4	To test different scenarios and see in which area need more robust information
Mallorca	5	
Mallorca	6	Exploration of a system
Mallorca	7	For communication only
Mallorca	8	Because it can offer a good whole vision of all the process

Question type	Location	SH	Q8. What could be a possible reason why you will not use this tool?
----------------------	-----------------	-----------	--

Open-ended	Mallorca	1	Not clear what it is based on. Works best on singular use cases.
	Mallorca	2	Not understanding assumptions behind the model
	Mallorca	3	For a fast and pragmatic solution
	Mallorca	4	Because it does not include yet interactions or uncertainty and does not help to evaluate the risks I would like to test.
	Mallorca	5	
	Mallorca	6	Because the input is not clear
	Mallorca	7	To simplistic model not much confidence in outputs
	Mallorca	8	None

Question type	Location	SH	Q9. What should we improve in the next version of the tool?
----------------------	-----------------	-----------	--

Open-ended	Mallorca	1	An option to analyse and compare different pathways.
	Mallorca	2	A button to start a new assessment while conserving results from the previous one
	Mallorca	3	More automatic (already cooked) diagrams,
	Mallorca	4	The explanations of the information behind.
	Mallorca	5	
	Mallorca	6	Specify the type of data that each tool uses (eg, expert, experimental, literature)
	Mallorca	7	Na
	Mallorca	8	Maybe include more case studies

Question type	Location	SH	Q10. Did any words or phrases in the tool confuse you?
----------------------	-----------------	-----------	---

Open-ended	Mallorca	1	Multiplier.
	Mallorca	2	
	Mallorca	3	Yes, technical words, colors, dark letters, small typos
	Mallorca	4	NA
	Mallorca	5	NA
	Mallorca	6	No
	Mallorca	7	Na
	Mallorca	8	More explanation of different ways of showing information (bayesian)

Question type	Location	SH	Q11. What questions in your daily work would you use this tool to answer?
----------------------	-----------------	-----------	--

Open-ended	Mallorca	1	How is tourism impacting our restoration site.
	Mallorca	1	How can working on improving ocean literacy withing the local community help mitigate pressures.
	Mallorca	2	Which measures could be better to avoid negative consequences of different activities on marine biodiversity?
	Mallorca	3	Can't use because I need to solve problems fast.
	Mallorca	4	For test pressure scenarios and compare results with other models or risk assessments, or for participatory workshops to discuss measures
	Mallorca	5	to answer a question regarding a specific impact
	Mallorca	6	Explore drivers of change in an are
	Mallorca	7	Communication
Mallorca	8	Environmental impact studies	

Question type	Location	SH	Q12. The BowTie is easy to use: 1-5
----------------------	-----------------	-----------	--

Scale	Mallorca	1	4
	Mallorca	2	3
	Mallorca	3	
	Mallorca	4	4
	Mallorca	5	4
	Mallorca	6	4
	Mallorca	7	3
	Mallorca	8	4

Question type	Location	SH	Q13. How likely are you to use the BowTie in future projects?
----------------------	-----------------	-----------	--

Multiple-Choice	Mallorca 1	Unsure
	Mallorca 2	Unsure
	Mallorca 3	
	Mallorca 4	Unsure
	Mallorca 5	Unsure
	Mallorca 6	Unlikely
	Mallorca 7	Unlikely
	Mallorca 8	Likely

Question type	Location	SH	Q14. Describe your experience with the tool in two words:
---------------	----------	----	---

Open-ended	Mallorca 1	Fast
	Mallorca 2	uncertain
	Mallorca 3	Technical diagnosis
	Mallorca 4	Easy to use but not sure on the background, so perhaps less trustable
	Mallorca 5	fast analysis
	Mallorca 6	Uncertainty
	Mallorca 7	Info gramma
	Mallorca 8	Easy, useful

Appendix 5.3. The sSES-DSS tool

Question type	Location	SH	Q1. What professional sector are you representing?
Multiple Choice	Mallorca	1	NGO / Non-profit
	Mallorca	2	NGO / Non-profit
	Mallorca	3	Authorities (governance / policy)
	Mallorca	4	Academia / Research
	Mallorca	5	Private sector / SME
	Mallorca	6	Academia / Research
	Mallorca	7	
	Mallorca	8	Authorities (governance / policy)
Question type	Location	SH	Q2. What is your age? If you do not wish to answer this question you can skip it.
Open-ended	Mallorca	1	30
	Mallorca	2	46
	Mallorca	3	51
	Mallorca	4	37
	Mallorca	5	45
	Mallorca	6	46
	Mallorca	7	
	Mallorca	8	53
Question type	Location	SH	Q3. What is your gender?
Multiple Choice	Mallorca	1	Male
	Mallorca	2	Female
	Mallorca	3	Male
	Mallorca	4	Female
	Mallorca	5	Male
	Mallorca	6	Female
	Mallorca	7	
	Mallorca	8	Male
Question type	Location	SH	Q4. I rate this tool: (1-5)
Scale	Mallorca	1	2
	Mallorca	2	3
	Mallorca	3	5
	Mallorca	4	5
	Mallorca	5	4
	Mallorca	6	4
	Mallorca	7	4
	Mallorca	8	4
Question type	Location	SH	Q5. I will use this tool: (1-5)
Scale	Mallorca	1	3
	Mallorca	2	3
	Mallorca	3	5
	Mallorca	4	4
	Mallorca	5	3
	Mallorca	6	3
	Mallorca	7	3
	Mallorca	8	4
Question type	Location	SH	Q6. Others will use this tool: (1-5)
Scale	Mallorca	1	2
	Mallorca	2	2
	Mallorca	3	4
	Mallorca	4	3
	Mallorca	5	
	Mallorca	6	4
	Mallorca	7	4
	Mallorca	8	4
Question type	Location	SH	Q7. Why will you use this tool?
Open-ended	Mallorca	1	Na
	Mallorca	2	To explore effects of different management strategies

	Mallorca	3	Decision making, support for the strategy of conservation, Digital Twins, Documents for governance
	Mallorca	4	To work with different stakeholders to built models and test scenarios
	Mallorca	5	management of protected areas, public participation
	Mallorca	6	Define principal links in a SES to know where to put efforts
	Mallorca	7	Mind mapping
	Mallorca	8	To know the relationships among all the parameters, and their importance
Question type	Location	SH	Q8. What could be a possible reason you wil not use this tool?
Open-ended	Mallorca	1	
	Mallorca	2	NA
	Mallorca	3	Dance
	Mallorca	4	NA
	Mallorca	5	NA
	Mallorca	6	Na
	Mallorca	7	Na
	Mallorca	8	None
Question type	Location	SH	Q9. What should we improve in the next version of the tool?
Open-ended	Mallorca	1	Very subjective. Hard to present to decision makers when each person would have a different outcome.
	Mallorca	1	A guideline on how to score uncertainty.
	Mallorca	2	show uncertainty user book
	Mallorca	3	Export in NetCDF ?
	Mallorca	4	A better explanation of strength and confidence
	Mallorca	5	Guideline, References of what means confidence and streng
	Mallorca	6	Show uncertainty of the links in the plot
	Mallorca	7	Na
	Mallorca	8	Guideline
Question type	Location	SH	Q10. Did any words or phrases in the tool confuse you?
Open-ended	Mallorca	1	No
	Mallorca	2	I didn't got any loops in the loops analysis
	Mallorca	3	Brief explain of what is SES Tool..
	Mallorca	4	NA
	Mallorca	5	
	Mallorca	6	No
	Mallorca	7	Loops
	Mallorca	8	No
Question type	Location	SH	Q11. For what questions in your daily work would you use this tool to answer?
Open-ended	Mallorca	1	What impact do our restoration actions have.
	Mallorca	2	which management strategies are better to conserve marine biodiversity?
	Mallorca	3	Priorice the eford, energy and fundings for conservation
	Mallorca	4	To model fisheries socio-ecological system in co-creation and rapid test potential measures
	Mallorca	5	na
	Mallorca	5	to a storm of ideas
	Mallorca	6	Identify main connections in a system
	Mallorca	7	Na
	Mallorca	8	Analysis of impacts. Environmental impact studies.
Question type	Location	SH	Q12. The SES-DSS tool is easy to use: 1-5
Scale	Mallorca	1	5
	Mallorca	2	
	Mallorca	3	4
	Mallorca	4	4
	Mallorca	5	3
	Mallorca	6	4
	Mallorca	7	4

Mallorca 8 3

Question type Location SH Q13. How likely are you to use the SES-DSS tool in future projects?

Multiple Choice Mallorca 1 Unsure
Mallorca 2 Unsure
Mallorca 3 Likely
Mallorca 4 Likely
Mallorca 5 Unsure
Mallorca 6 Unsure
Mallorca 7 Unsure
Mallorca 8 Likely

Question type Location SH Q14. Describe your experience with the tool in two words:

Open-ended Mallorca 1 Easy
Mallorca 2 exploratory
Mallorca 3 Logic mind map for decision making
Mallorca 4 Helpful and fast for building network analysis
Mallorca 5 fast and easy
Mallorca 6 Simple
Mallorca 7
Mallorca 8 Good approach

Appendix 5.4. The Governance tool

Question type	Location	SH	Q1. What professional sector are you representing?
Multiple Choice	Mallorca 1		NGO / Non-profit
	Mallorca 2		NGO / Non-profit
	Mallorca 3		Authorities (governance / policy)
	Mallorca 4		Academia / Research
	Mallorca 5		
	Mallorca 6		Academia / Research
	Mallorca 7		Academia / Research
	Mallorca 8		Authorities (governance / policy)
Question type	Location	SH	Q2. What is your age? If you do not wish to answer this question you can skip it.
Open ended	Mallorca 1		30
	Mallorca 2		46
	Mallorca 3		51
	Mallorca 4		37
	Mallorca 5		45
	Mallorca 6		46
	Mallorca 7		54
	Mallorca 8		53
Question type	Location	SH	Q3. What is your gender?
Multiple Choice	Mallorca 1		Male
	Mallorca 2		Female
	Mallorca 3		Male
	Mallorca 4		Female
	Mallorca 5		Male
	Mallorca 6		
	Mallorca 7		Male
	Mallorca 8		Male
Question type	Location	SH	Q4. I rate this tool: (1-5)
Scale	Mallorca 1		2
	Mallorca 2		2
	Mallorca 3		3
	Mallorca 4		2
	Mallorca 5		1
	Mallorca 6		2
	Mallorca 7		2
	Mallorca 8		4
Question type	Location	SH	Q5. I will use this tool: (1-5)
Scale	Mallorca 1		1
	Mallorca 2		2
	Mallorca 3		3
	Mallorca 4		2
	Mallorca 5		1
	Mallorca 6		2
	Mallorca 7		1
	Mallorca 8		3
Question type	Location	SH	Q6. Others will use this tool: (1-5)
Scale	Mallorca 1		1
	Mallorca 2		2
	Mallorca 3		2
	Mallorca 4		2
	Mallorca 5		2
	Mallorca 6		2
	Mallorca 7		2
	Mallorca 8		2
Question type	Location	SH	Q7. Why will you use this tool?
Open-ended	Mallorca 1		If updated it would be useful to understand the levels of beaurocacy in different places
	Mallorca 2		To map connections, stakeholders and regulations

Mallorca 2 Partial, including stakeholders from different areas that are not really connected to here
Mallorca 3 To modify and test
Mallorca 4 To know the stakeholders involved in some specific theme.
Mallorca 5 NA
Mallorca 6 NA
Mallorca 7 Understand network of stakeholders and regulations
Mallorca 8 To know possibles related administrations

Question type Location SH Q8. What could be a possible reason why you will not use this tool?

Open-ended Mallorca 1 Not updated
Mallorca 2 It doesn't include all stakeholders and includes some from different areas are not really connected
Mallorca 3 I miss some information or connections
Mallorca 4 NA
Mallorca 4 It would be interesting to have the possibility to modify and built your networks
Mallorca 5 it's a static photo not usefull to close future
Mallorca 6 Static and complicated
Mallorca 7 Na
Mallorca 8 NA

Question type Location SH Q9. What should we improve in the next version of the tool?

Open-ended Mallorca 1 Ability to edit and make own.
Mallorca 2 Make it dynamic
Review stakeholders
Mallorca 3 It could be edited in other working groups. to keep it alive in time
Mallorca 4
Mallorca 5 introduce data to create a proper net
Mallorca 6 A dynamic tool, to enter new data
Mallorca 7 Na
Mallorca 7 Flexibility of data entry and editing
Mallorca 8 Allow authorized people to update the information

Question type Location SH Q10. Did any words or phrases in the tool confuse you?

Open-ended Mallorca 1 No
Mallorca 2 Inclusion of unrelated institutions in the map
Mallorca 3 Search not working.
Mallorca 4 NA
Mallorca 5 NO
Mallorca 6 Na
Mallorca 7 Na
Mallorca 8 NA

Question type Location SH Q11. For what questions in your daily work would you use this tool to answer?

Open-ended Mallorca 1 Na
Mallorca 2 Mapping stakeholders and regulations when improved
Mallorca 3 Not sure
Mallorca 4 As a first step in a research to know all the stakeholders and laws and organisms involved in a certain area
Mallorca 5 NO
Mallorca 6 No
Mallorca 7 Na
Mallorca 8 To know affected administrations by projects, normative, and so on

Question type Location SH Q12. The Governance tool is easy to use: 1-5

Scale Mallorca 1 4
Mallorca 2 5
Mallorca 3 3
Mallorca 4 4
Mallorca 5 5
Mallorca 6 3
Mallorca 7 4
Mallorca 8 5

Question type Location SH Q13. How likely are you to use the Governance tool in future projects?

Mallorca 1 Very unlikely

Multiple	Mallorca 2	Unsure
Choice	Mallorca 3	Unsure
	Mallorca 4	Unsure
	Mallorca 5	Unlikely
	Mallorca 6	Very unlikely
	Mallorca 7	Very unlikely
	Mallorca 8	Unsure

Question type	Location	SH	Q14. Describe your experience with the tool in two words:
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Open-ended	Mallorca 1	Not a tool
	Mallorca 2	static, incomplete
	Mallorca 3	Interesting connection but not reconnection
	Mallorca 4	Easy, helpful but not as a tool, as a source of information
	Mallorca 5	static photo
	Mallorca 6	Not dynamic
	Mallorca 7	Unfinished static
	Mallorca 8	Overview