



MARINE
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Stakeholder engagement 3rd Stakeholder Workshop #1

DA III – Macaronesia – Azores - 2025

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1. Introduction

This report, prepared under Milestone 2.18 of the Marine SABRES project, presents the outcomes of the third round of stakeholder consultations conducted in the Azores archipelago as part of Work Package 2 (WP2). These consultations are a core element of WP2, which is dedicated to ensuring inclusive and effective stakeholder engagement across the project's Demonstration Areas (DAs).

In the first phase of stakeholder engagement, WP2 focused on identifying the "priority components" of the coastal and marine environments within each DA, 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. The findings from these early engagements were documented in Milestones 2.2, 2.3, 2.4, and 2.5, which reported on stakeholder consultations in the Tuscan Archipelago, the Azores, Madeira, and Gran Canaria.

The second phase marked a continuation of that participatory approach, with follow-up consultations being held in each of the Demonstration Areas. The key objectives of this round were to review and validate the outcomes of the first consultations, to explore stakeholder reactions to the initial applications of the 'Simple SES' framework, and to gather input on the scenarios, tools, and transition pathways currently being developed by other work packages. The findings of these engagements in Madeira, Canary Islands, the Azores, and the Tuscan Archipelago, have been documented respectively in Milestones 2.10, 2.11, 2.12, and 2.13.

The insights gained from the second round of consultations provide a robust foundation for the third and final phase of the project, in which the further refinement of the Marine SABRES tools is the focal point, to be carried out in collaboration with project researchers across the WPs. In this co-design process the focus will shift from gathering inputs to presenting and reviewing the near-final prototypes of the tools developed within the project.

The appendices include a full list of participating stakeholders, a detailed program outline, the flyers distributed in advance of the workshops, the GDPR and IPR protocol – including informed consent document used in Marine SABRES, all PowerPoint slides presented, and the complete results from the Mentimeter sessions conducted during the workshops.

2. Materials and Methods

2.1 Preparation

Leading up to the third series of consultations, WP2 conducted extensive preparatory work to ensure the workshops would be well-structured and impactful. In the section below a chronological overview of this preparatory phase is given.

June – August 2025

- Contact Persons and stakeholders in all DAs were informed about the upcoming third round of consultations and asked about their availability.
- Initial discussions addressed preliminary ideas regarding timing, stakeholder selection, methods, and formats.
- WP- and Task leads were requested to provide the most up-to-date input on their work (i.e. an ‘almost finalized’ version or prototype of their tool, models, or frameworks, including a stakeholder-friendly manual), to describe the type of input or feedback required from stakeholders, and to indicate their preferred format of engagement.

September 2025

- Logistical arrangements, including location, technical requirements, catering, and other practical matters, were made through online correspondence with the local Contact Persons.
- In parallel, discussions with WP- and Task leads focused on refining their contributions to ensure that tools, models, and frameworks would be effectively presentable and testable by stakeholders (i.e. ‘stakeholder-proof’). The interactive parts of the sessions were further discussed and streamlined, including the design of Mentimeter sessions and the content of surveys.

October and November 2025

- During the project’s General Assembly in Pisa that took place from 21 to 23 October 2025, discussions with WP- and Task leads were held to finalize the content and format of the interactive sessions for the stakeholder consultations. In the weeks following the General Assembly, all input was compiled and integrated into one coherent and logical story-line that would make sense to the stakeholders and that would remain engaging them throughout the upcoming half-day workshops.
- An additional preparatory meeting was hosted by Klaipėda University in Klaipėda, Lithuania on 11 and 12 November 2025. The aim of this meeting was to review feedback from the General Assembly and earlier stakeholder consultations, and to define priorities for further tool development as well as an action plan for the upcoming period.
- Practical details, such as timing and location, were further refined in coordination with the local Contact Persons.

December 2025 onward

- As of December 2025, workshops have been conducted across the various territories within the DAs. In the Azores, these workshops were held on São Miguel (2 December 2025) and Terceira (5 December 2025).
- The upcoming locations scheduled for implementation include the Tuscany Archipelago, the Canary Islands (Fuerteventura and Gran Canaria), and Madeira (Porto Santo and Madeira Island).

2.2 Content and Format of Consultations

As in the second round of consultations, the consultation workshops were conducted on two islands within the archipelago of the Azores. Stakeholder invitations were managed by the local Contact Persons through the distribution of flyers translated in the local language (Appendix 3). This process resulted in the participation of nine stakeholders, comprising six participants from São Miguel and three from Terceira (Appendix 1).

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

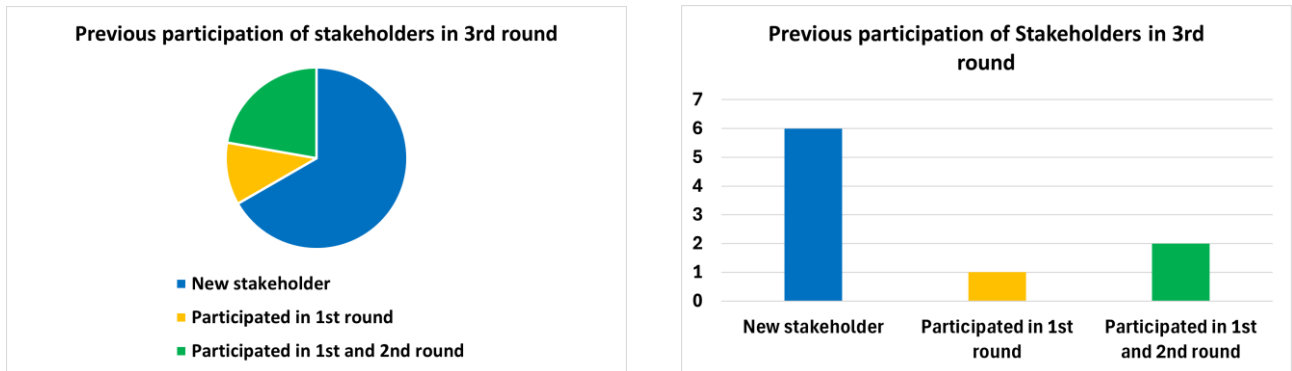
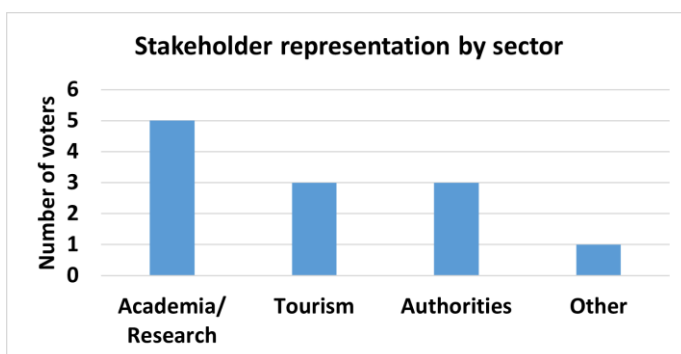


Figure 1. Stakeholder composition (minus the 3 local project researchers) in the 3rd round by prior participation (left figure with relative values, right figure absolute values)

The composition of the stakeholder group in the third round reflects varying degrees of prior participation. While most stakeholders were participating for the first time in this consultation round (67%), about one-third had taken part previously, either in the first round (11%) or in both the first and second rounds (22%). We have in this graph, as well in the overall stakeholder list in Appendix 1, not included the local project researchers who are connected to the project. They have, however, participated in the further testing of the tools and in the Mentimeter sessions, and are therefore included in the results below, since they are also potential users of the tools.

Since the focus of this workshop was on testing the tools' usefulness and usability for different stakeholder groups, and not any result nor the tools themselves had been shown before to any stakeholder, the high proportion of new participants does not affect the interpretation of the results. On the contrary, it might be considered that new participants also bring fresh perspectives and are not influenced by insights from previous consultations.



The majority of stakeholders, including the local researchers involved in the project to test the tools, represented Academia/ Research, followed by Tourism and Authorities. The "Other" sector only had one representative.

Figure 2. Professional sectors of the stakeholders (and local project researchers) present at the workshop

All participating stakeholders provided informed consent through signed consent forms (Appendix 4). In addition, HuFoSS, acting as workshop chair, verbally informed participants that all workshop outputs would be anonymized. During the interactive sessions – where stakeholder feedback and input were collected –

only participants' professional categories were recorded. Individual responses, 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.

Each workshop had a duration of approximately half a day, commencing at 09:00 and concluding at approximately 13:30. The program¹ began with a general welcome, followed by an introduction to the Marine SABRES project and the specific objectives of the workshop (Appendix 5.1). Participants were thanked for their engagement and informed about the potential benefits of their involvement in the consultation process.

The workshop focused on three tools: the Simple Social-Ecological System and Decision Support System (sSES-DSS) tool (Appendix 5.2), the Governance tool (Appendix 5.3), and the Toolbox website developed by the sister project MARBEFES (Appendix 5.4). Each tool was briefly introduced, including an overview of its objectives, functionality, target users, and added value. Feedback was subsequently collected using Mentimeter (Appendix 6), complemented by verbal feedback that was documented by the workshop facilitators during the testing activities.

The Mentimeter questions comprised open-ended, multiple choice or rating-scale formats. For the open-ended questions, participants were able to provide free-text responses. Multiple-choice questions required participants to select one or more options from a pre-defined list, while rating-scale questions required participants to indicate their level of agreement or intensity of opinion on a scale from 1 to 5.

For the first tool, the sSES-DSS tool, stakeholders were provided direct access via an online link and participated in an interactive demonstration. Participants engaged with the tool on their own computers, entering data individually while being guided step-by-step by the presenter. For the second and the third tools, a slightly different approach was applied. These tools were first demonstrated visually by the presenter on screen, after which stakeholders were given access links to explore the tools independently.

In order to provide the stakeholders also with the range and potential of the tools under development in the sister-project MARBEFES, an overview of the Toolbox and its content was presented to the audience. The links between the sister projects Marine SABRES and MARBEFES are quite tight, since several tools in both projects have been calibrated and finetuned on basis of the stakeholder input from the earlier consultations. It therefore makes sense to inform the stakeholders from both projects on the mutual developments and upcoming products.

During the first workshop held in São Miguel, it became evident that the fully guided interactive demonstration for the first tool required a considerable amount of time. To improve efficiency in the second workshop in Terceira, stakeholders were provided with step-by-step printed user manuals, enabling them to engage with the tools at their own pace. Workshop leaders circulated throughout the session to provide individual support as needed.

¹ See Appendix 2 for the detailed meeting agenda

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 the Azores archipelago.

Each Mentimeter session began with the same introductory question: *"Which professional sector do you represent?"* As the responses to this question 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. 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.

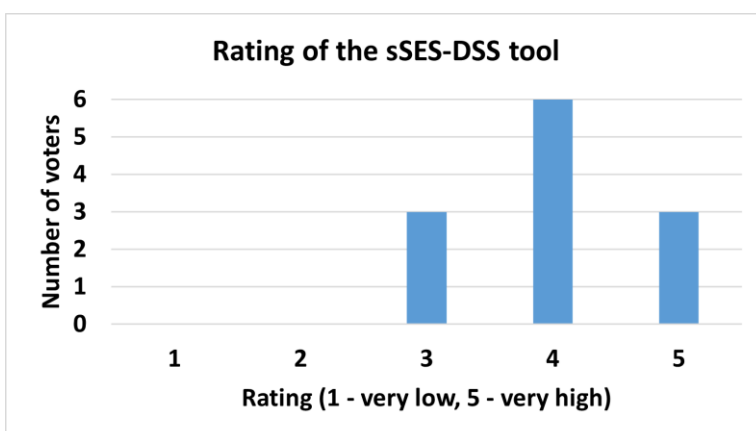
It is important to note that the stakeholder workshops conducted as part of this milestone involved a relatively small number of participants. Consequently, the findings presented in this report should not be interpreted as representative conclusions or generalizable insights applicable to the broader 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 DAs, and of similar consultations at locations of the sister-project MARBEFES, even stronger funded conclusions may be drawn.

The presentation used to inform stakeholders and frame the interactive testing activities is included in Appendix 5. A complete account of the raw results from the Mentimeter sessions is provided in Appendix 6.

3.1. Testing the sSES-DSS tool

The first interactive session of the workshop (Appendices 5.2 and 6.1) 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, to explain how the tool operates, and to let the stakeholders interact with the tools in practice as a test. After the interactive demonstration and testing phase, feedback on this subject was gathered through a group discussion and a Mentimeter survey.

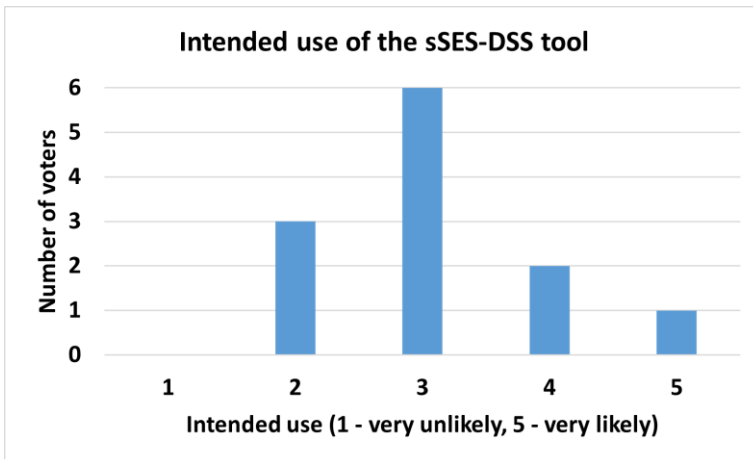
Q. How do you rate this tool?



The majority of participants rated the tool 4 out of 5, indicating a generally positive evaluation. An equal number of participants rated it as neutral (3) and very high (5), suggesting overall favourable, but slightly varied perceptions of the tool.

Figure 3. Rating of the sSES-DSS tool by stakeholders

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

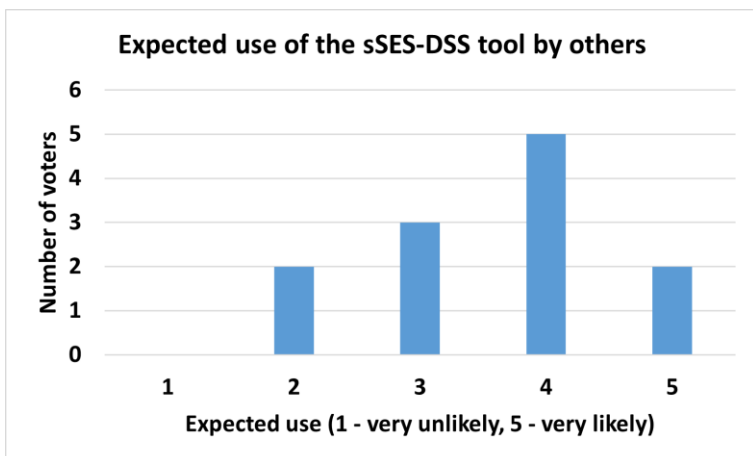


Most participants selected a neutral response (3), indicating uncertainty about whether they would use the tool. Responses at both the lower (2) and higher (4–5) ends were present but less frequent, suggesting mixed intentions and no strong consensus within this stakeholder group.

Figure 4. Intended use of the sSES-DSS tool among participants

Participants noted various reasons why they would use this tool. Amongst the responses were ‘to understand the changes between the drivers, pressures, and impacts’ and ‘selecting or evaluating different management strategies’. This is in line with the DAPSI(W)R(M) (Drivers-Activities-Pressures-State changes-Welfare impacts-Responses-Measures) framework that forms the foundation of the tool in order to analyse complex interactions between marine ecosystems and human activities. Stakeholders also would like to use the sSES-DSS tool to better understand and explore how the SES itself works, which is the general objective of the tool. In their daily work, participants would use the tool to answer various questions, such as: to determine the impact of marine waste on socioeconomic and cultural elements, measurements to counter biodiversity loss and ways to enhance maritime security. On the other hand, participants noted they might not use this tool, because it is not in line with their daily work, too time-consuming or too complicated.

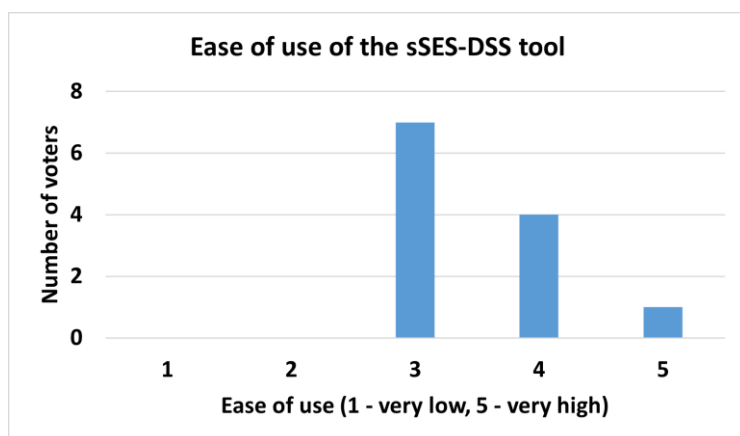
Q. What is the likelihood of others using this tool?



The responses indicate a generally positive expectation of the sSES-DSS tool’s use by others. Most participants selected “likely” (4), with neutral responses (3) following, suggesting overall optimism despite some remaining uncertainty.

Figure 5. Expected use of the sSES-DSS tool by others

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

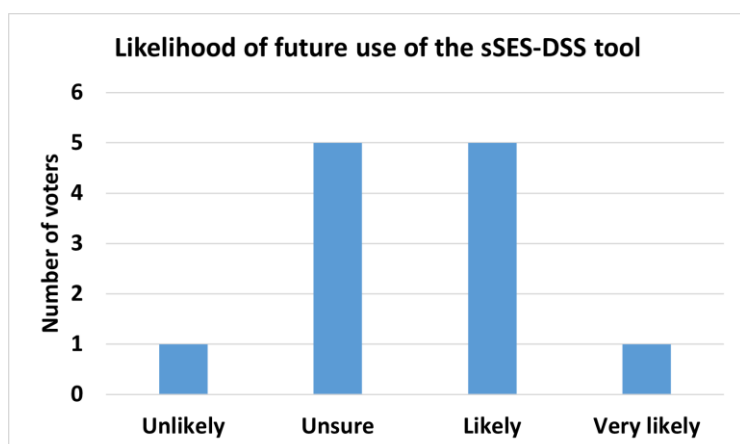


Most participants rated the ease of use of the sSES-DSS tool as neutral (3), with responses skewing slightly toward the positive end of the scale (4–5). This suggests that while the tool is not perceived as strongly user-friendly, it is generally viewed as acceptable, with some participants expressing a positive assessment of its usability.

Figure 6. The ease in which the stakeholders found the sSES-DSS tool to use

Whilst the ease of use of the sSES-DSS tool is generally rated positive, stakeholders did note some ways the tool can be improved. Amongst suggestions are ‘to improve functionality’, for example by ‘removing small bugs’ and faulty translation that appeared when testing the tool, and ‘simple tutorial instructions and demonstration’. This feedback has definitely been helpful and can be passed through the developers of the tool to increase its ease of use.

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



Stakeholders shared different viewpoints on the likelihood they would use the sSES-DSS tool in the future. Most stakeholders were either unsure or likely to use the tool in the future, with one stakeholder finding this chance unlikely and one finding it very likely.

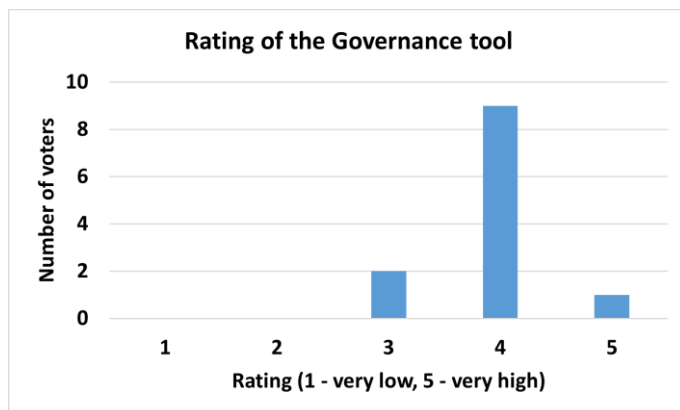
Figure 7. The likelihood of stakeholders using the sSES-DSS tool in future projects

When comparing the likelihood of future use with the intended use for current work, we again see a mixed picture. These differences might be explained by the different backgrounds of the stakeholders in this consultation round. Some stakeholders affirmed this by statements such as ‘it is not suitable for my daily work’ or ‘it falls out of my daily work’. In addition, when asked to rate the likelihood of other people using the sSES-DSS tool (Q4), stakeholders were generally more positive than when rating the likelihood of them using the tool. This indicates that the sSES-DSS tool might be primarily be useful for a certain type of sectoral group of stakeholders, and that, the rating of the tools is very much depended upon which stakeholders are testing it.

3.2. Testing the Governance tool

The second practical session focused on the Governance tool (Appendices 5.3 and 6.2). Stakeholders were first introduced to the development of the tool, its benefits for managing complex marine systems, 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.

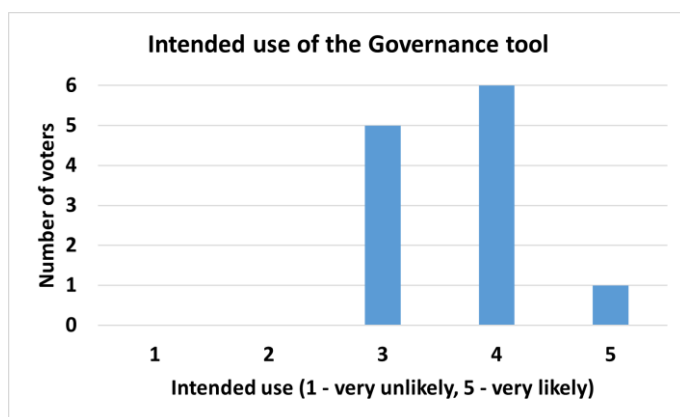
Q. How do you rate this tool?



Stakeholders rated the Governance tool positively, with the majority assigning it a score of 4 out of 5. Only a few stakeholders provided a neutral rating (3), and no low ratings were given, indicating that the Governance tool is generally well accepted by the stakeholders in the Azores.

Figure 8. Rating of the Governance tool by stakeholders

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

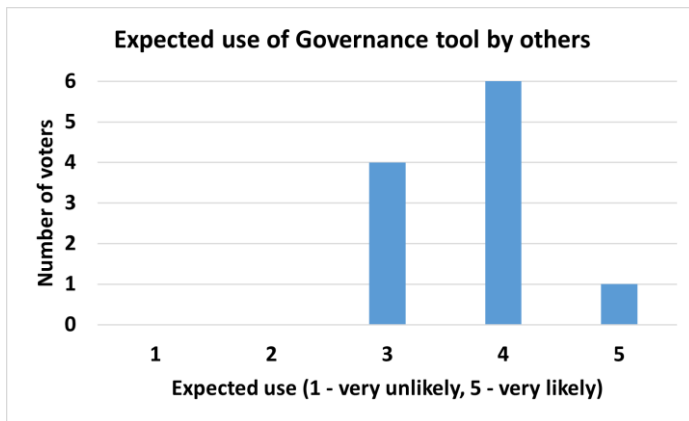


The likelihood of participants using the Governance tool shows a mixed picture. While most participants indicated that they were likely (4) to use the tool in their current work, a substantial number took a more neutral stance (3), suggesting cautious but generally positive intentions toward its use.

Figure 9. Intended use of the Governance tool among participants

The overall positive rating is reflected in stakeholders' high likelihood of using the Governance tool following this consultation round. Participants indicated that they would use the tool, for example, 'to find specific legislation' or 'to understand the complexity of the system', and also for it to be an 'easy and quick way to get information'. These intended uses align with the general aim of the toolbox: to make complex governance structures more apprehensible, and to support and enable stakeholders in informed decision-making. The Governance tool appears to cater to professional needs, by helping to identify 'regulation related with non-indigenous species', 'what ... protected areas regulations' are and 'what agency is responsible', as well as 'how does environmental legislation affect the Azorean ecosystems?'. Overall, these results indicate a strong potential for practical uptake and regular use of the tool.

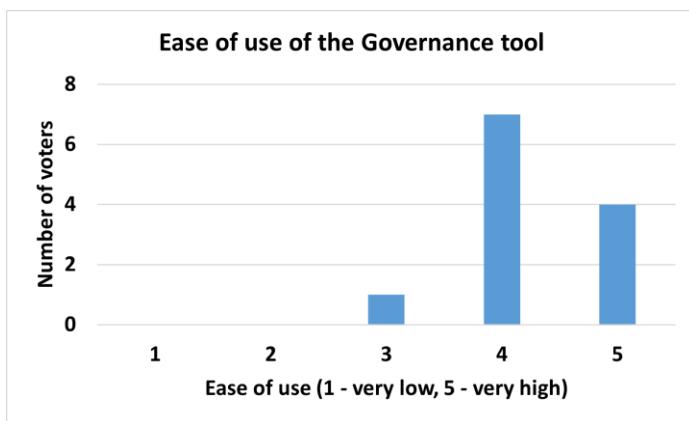
Q. What is the likelihood of others using this tool?



Participants expressed differing views regarding the expected use of the Governance tool by others. While most participants considered it likely (4) that others would use the tool, quite some believed this to be neither likely nor unlikely (3), with only one stakeholder indicating that its use by other would be very likely (5). Overall, the responses present a mixed picture, but one that leans toward a positive expectation.

Figure 10. Expected use of the Governance tool by others

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

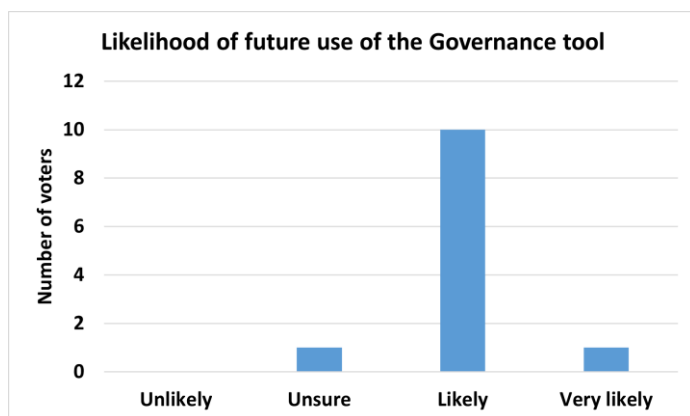


Participants found the Governance tool quite easy to use. Most indicated the ease of use to be good (4), followed by high (5), with only one neutral rating (3) and no low ratings.

Figure 11. The ease in which the stakeholders found the Governance tool to use

When asking to describe their experience with the Governance tool, most participants chose the term 'easy' – reflecting its general ease of use. Only one stakeholder noted it to be 'not user friendly', citing the number of required interactions. However, overall, stakeholders found the tool easy to navigate. Participants also provided several suggestions for improvement, including the ability to download reports, improved accessibility on mobile devices, clearer links between sector and legislation, and the definition of specific terms such as 'umbrella'. These suggestions are relatively straightforward to implement and would further enhance alignment of the tool with stakeholder needs.

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



Stakeholders overall thought they would use the Governance tool in future projects. Most stakeholders answered with likely, with only one being unsure and one stakeholder finding it very likely to use the Governance tool in future projects. The tool therefore seems useful for the different types of stakeholders in this consultation round.

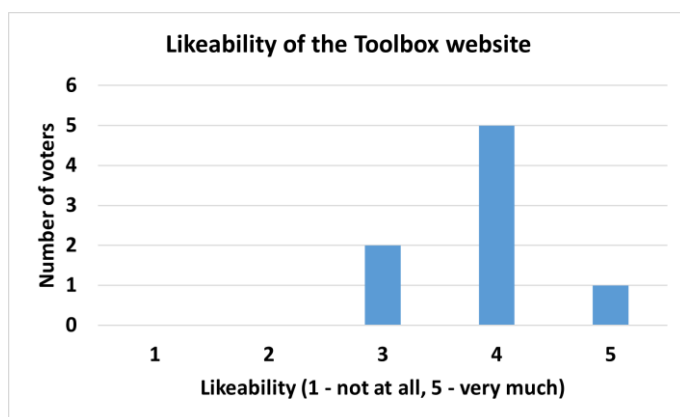
Figure 12. The likelihood of stakeholders using the Governance tool in future projects

Interestingly, results show that stakeholders are more likely to use the tool in future projects than in their current work. This difference may be explained by changing needs or conditions. Nevertheless, when rating the likelihood of using the tool – whether in current work, in future projects or by others – participants reported generally high levels of expected use.

3.3. Testing the Toolbox website

The final practical session focused on the MARBEFES Toolbox website for stakeholders (Appendices 5.4 and 6.3). The objective of this session was to introduce the website and its benefits, and allow participants 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. To what extent do you like the Toolbox website?

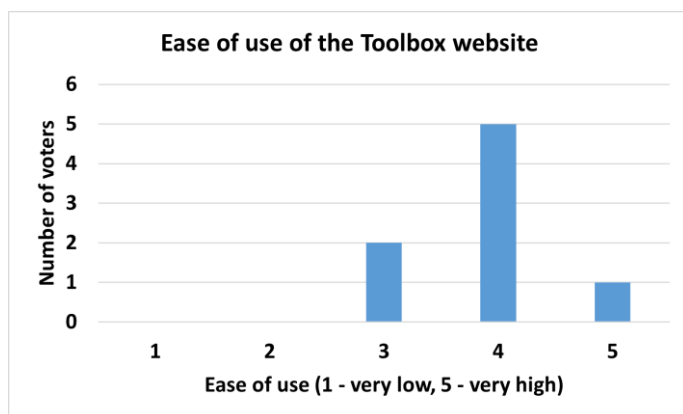


Stakeholders generally evaluated the Toolbox website positively. Most respondents liked the website to a large extent (4), with some indicating moderate likeability (3), and one participant reporting very high likeability (5), while none selected negative ratings (1-2). Overall, this suggests that the Toolbox website is well received among stakeholders.

Figure 13. Stakeholders' ratings of the likeability of the Toolbox website

The mixed reported likeability is reflected in the differing reasons participants gave for using the Toolbox website. While some indicated that they would not use the tool on a daily basis, others identified its value to 'gather information on specific research concerns' or for 'environmental education ... purposes', along with its ability to search for tools. Although these responses suggest that the Toolbox shows potential, participants also noted that it is still early to fully assess its usefulness, as the website remains in an early stage of development, making comprehensive evaluation difficult.

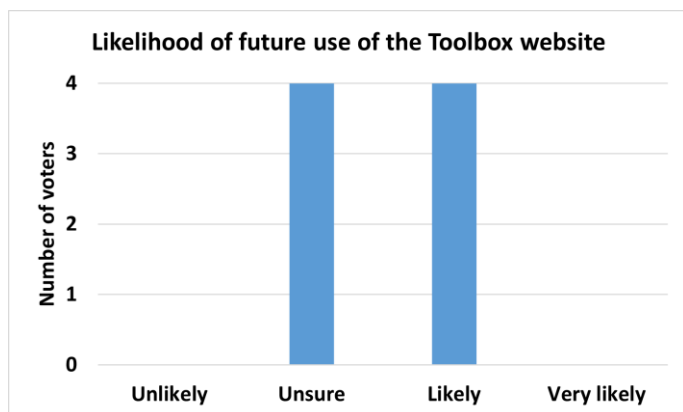
Q. What is the ease of use of the Toolbox website?



Stakeholders generally found the Toolbox website easy to use. Most respondents rated the ease of use as rather high (4), with some giving a moderate rating (3), and one participant rating the ease of use as high (5). No respondents selected negative ratings (1-2).

Figure 14. The ease in which the stakeholders found the Toolbox website to use

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



Stakeholders had different views regarding the likelihood they would use the Toolbox website in the future. An equal amount of participants answered unsure and likely.

Figure 15. The likelihood of stakeholders using the Toolbox website in future projects

The uncertainty surrounding the likability of the Toolbox website is also reflected in the mixed responses regarding future use. While some stakeholders recognised its potential and indicated that future use was 'likely', an equal number reported being 'unsure'. These differences may be explained by a limited understanding of what the Toolbox website will ultimately become, or, by the possibility that its usefulness is primarily limited to specific sectoral stakeholder groups.

3.4 Comparing the tools

This section provides a comparative overview 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 intended use in future work. To enable comparison across tools for each question, the scale used for 'intended future use' (Questions 11, 11 and 9, respectively) was adjusted from a 1-4 scale, to a 1-5 scale by multiplying each rating by 1,33.

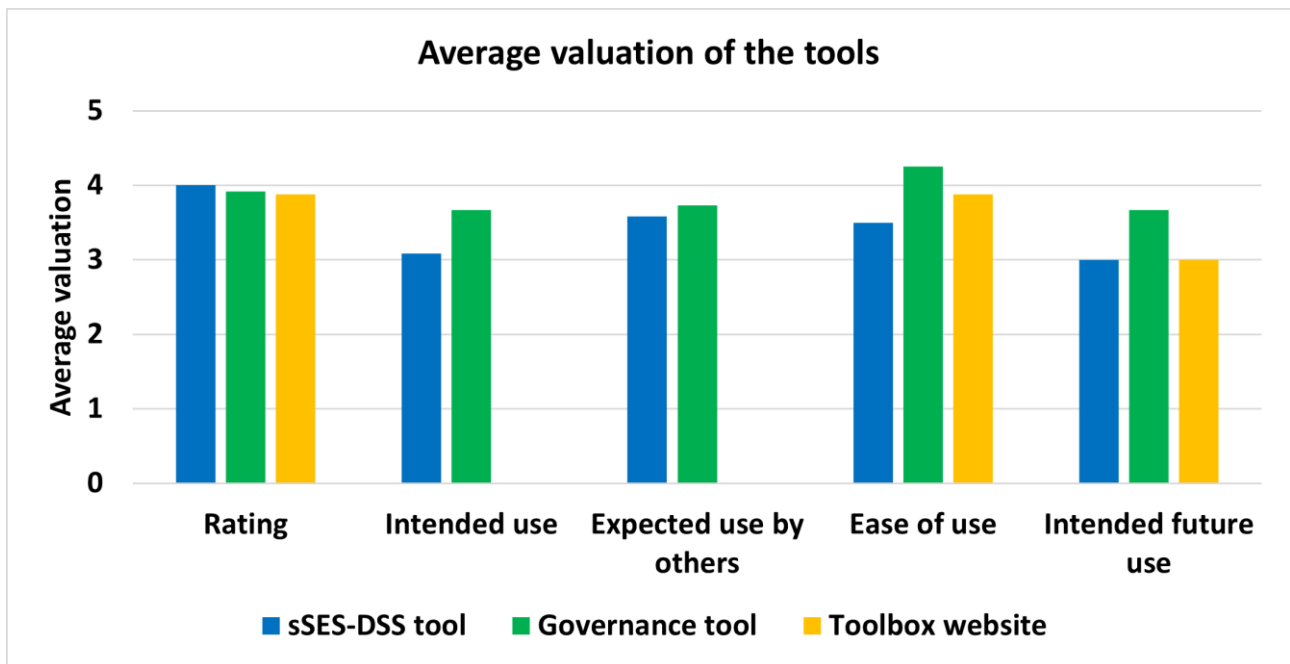


Figure 16. Comparison of the average valuation of each tool

Overall, all three tools – the sSES-DSS tool, Governance tool and the Toolbox website – received relatively high average scores across all evaluated dimensions. Mean values for all tools were consistently above three on a five-point scale, with most categories approaching a score of four, indicating favourable stakeholder assessments.

While overall ratings were comparable across tools, the Governance tool achieved the highest scores across most categories, particularly in ‘ease of use’ and ‘intended future use’. This suggests a comparatively stronger alignment with stakeholder needs and expectations. The sSES-DSS tool showed only slightly lower average scores, which may be related to its higher complexity and the presence of some technical issues reported by participants during the consultation.

The Toolbox website also scored somewhat lower on several dimensions. This may reflect uncertainty among stakeholders about its practical applicability, likely influenced by the fact that the website is still in an early stage of development.

Across all tools, ‘intended future use’ received the lowest average scores relative to other evaluation criteria. This pattern may indicate challenges for stakeholders in anticipating future needs or in envisioning how the tools could be integrated into future work. Nonetheless, the consistently moderate-to-high scores across all categories suggest that stakeholders recognise the value of the tools and perceive potential for their (future) use.

4. Discussion and Conclusion

This section provides a reflection on the outcomes of the Azores archipelago stakeholder workshop in the context of the MarineSABRES project. It outlines how the workshop contributed to the overall project goals and emphasizes the importance of continued stakeholder engagement. The discussion also identifies the significance of aligning stakeholder perspectives with project objectives and sets the stage for upcoming activities that will further support the project's co-development process.

4.1. Workshop contributions to Project Goals

The workshop in the Azores archipelago, as part of the “3rd round of Stakeholder Consultations,” made a significant positive contribution to advancing the overarching goals of the MarineSABRES project. The general consensus from the event is that the workshop played an instrumental role in furthering key objectives, with notable contributions in several areas.

Firstly, through active and meaningful stakeholder engagement using interactive tools such as Mentimeter surveys, the workshop directly supported MarineSABRES' core objective of co-designing in a bottom-up fashion together with stakeholders a simple Social–Ecological System (sSES) to accelerate the uptake of ecosystem-based management (EBM). The diverse group of stakeholders consulted are intended end users of the tested tools, making their input invaluable for refining these tools and ensuring their suitability for broader application among policymakers, researchers, and other marine biodiversity stakeholders. Participants identified key discrepancies and challenges that must be addressed to make the tools and the overall Decision Support System (DSS) ready for further upscaling, thereby directly contributing to the advancement of Work Packages 6 and 7. These inputs help ensure that future outputs remain credible, relevant, and actionable.

Secondly, by integrating stakeholder experiences and feedback from this Demonstration Area, the workshop supported the progression of the project's tools from Technology Readiness Level (TRL) 6 to TRL 7, where prototypes are demonstrated as functioning effectively in their intended operational environments. This validation extended beyond the scientific community, confirming the applicability and usefulness of the frameworks for a broad range of stakeholders and reinforcing their relevance across diverse perspectives.

4.2. Next Steps

On 24 and 25 March 2026, the project will host its third Overarching Stakeholder Workshop. During this event, the Overarching Stakeholder group will reconvene to provide additional input and feedback on the latest project developments. Their contributions will play a crucial role in the co-development of the project's outputs, ensuring alignment with stakeholder interests and enhancing the overall project framework.

5. Acknowledgements

This report, developed under Milestone 2.18 of the Marine SABRES 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 the Azores, Portugal. 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 for their active participation: Bruno Sérgio – Best Spot Azores Dive Center, Miguel Faria, Catzrine Boratz – Futurismo Azores Adventures, Laura Gonzalez - Futurismo Azores Adventures, Guarda Nacional Republicana, University of the Azores, Joana Soares - Air Centre, Sofia Goulart - Observatório Ambiental dos Açores, and Câmara Municipal da Praia da Vitória.

We also extend our thanks to the local contact points who facilitated the stakeholder outreach and invitations, 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 Marine SABRES project team for their tireless efforts in collecting, analysing, and presenting the data, as well as those who provided feedback during the interactive sessions. 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 Marine SABRES project by the European Commission, which has made this important work possible. Marine SABRES is funded by the European Union's Horizon Europe programme under grant agreement No. 101058956.

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

6. Appendices

The following pages contain appendices:

Appendix 1 provides a list of all stakeholders who participated in the workshops held in the Azores

Appendix 2 includes a detailed meeting agenda of the workshop at both locations

Appendix 3 (Sections 3.1 – 3.2) includes the information flyers used to inform stakeholders

Appendix 4 GDPR and IPR protocol, and Informed Consent form

Appendix 5 (sections 5.1 – 5.4) presents the PowerPoint slides

Appendix 6 (Sections 6.1 – 6.3) contains, in chronological order, the results of the Mentimeter sessions

Appendix 1. Stakeholder participation list

Name	Organisation name	Gender	Age	Location	Date	Consent project partners	Consent third parties	Representative HuFoSS	Local Representatives
Bruno Sérgio***^	Best Spot Azores Dive Center	M	49	São Miguel	02.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa
Miguel Faria	Capitania dos portos de Angra do Heroísmo e Praia da Vitória	M		São Miguel	02.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa
Catzrine Boratz	Guarda Nacional Republicana	F	24	São Miguel	02.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa
Laura Gonzalez Garcia	Futurismo Azores Adventures	F	39	São Miguel	02.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa
Daniela Rahim	Guarda Nacional Republicana	F	36	São Miguel	02.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa
Ana Rodrigues	University of the Azores	F	44	São Miguel	02.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa
Joana Soares	Air Centre	F	43	Terceira	05.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa
Antonio Carlos A. Leal***	Observatório Ambiental dos Açores	M		Terceira	05.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa
Sofia Goulart*	Câmara Municipal da Praia da Vitória	F	37	Terceira	05.12.2025	Yes	Yes	Herman Hummel, Hanie Matajinimvar, Vivièn Laros	Andrea Zita Costa Botelho, Gustavo Oliveira de Meneses Martins, Ana Cristina Matos Ricardo Costa

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

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

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

^ = Stakeholder acts as an overarching stakeholder

Appendix 2: Detailed Meeting Agenda

Azores - Detailed Meeting Agenda

Date: 2 December 2025

Location: Ponta Delgada, São Miguel, Azores, Portugal

Morning 09:00 – 13:30

09:00 Welcome and introduction to the project

09:15 sSES-DSS tool

- Presentation
- Hands-on testing
- Collecting feedback

10:45 COFFEE BREAK

11:00 Governance tool

- Presentation
- Hands-on testing
- Collecting feedback

12:00 MARBEFES toolbox

- Presentation
- Hands-on testing
- Collecting feedback

13:00 LUNCH

Date: 5 December 2025

Location: Angra do Heroísmo, Terceira island, Azores, Portugal

Morning 09:00 – 13:30

09:00 Welcome and introduction to the project

09:15 sSES-DSS tool

- Presentation
- Hands-on testing
- Collecting feedback

10:45 COFFEE BREAK

11:00 Governance tool

- Presentation
- Hands-on testing
- Collecting feedback

12:00 MARBEFES toolbox

- Presentation
- Hands-on testing
- Collecting feedback

13:00 LUNCH

Appendix 3. Stakeholder information flyers

Appendix 3.1. Stakeholder information flyer for São Miguel



STAKEHOLDER WORKSHOP – 3ª RONDA

Junta-te a nós e testa as ferramentas

Vocês ajudaram a criá-las... agora ajudem-nos a testá-las!

2 DEZEMBRO 2025 | 09:00 - 13:30

📍 UNIVERSIDADE DOS AÇORES, PONTA DELGADA

Porquê participar?

- Ter a possibilidade de estar entre os primeiros a experimentar uma ferramenta interactiva desenvolvida com base no vosso contributo
- Ver como estas ferramentas podem auxiliar na gestão e conservação
- Ajudar a refinar a versão final, antes do seu lançamento
- Partilhar ideias com outros stakeholders e parceiros do projeto

Juntos, tornamos ideias em ações

para mais informações





Participa!

Nas primeiras duas rondas, vocês ajudaram a identificar prioridades e a dar forma às ferramentas que nos permitem melhor compreender e gerir o ambiente.

Agora, nesta terceira ronda, o teu contributo irá ajudar-nos a refinar e validar as ferramentas, garantindo que estas são práticas, de fácil utilização, e que estão aptas para serem usadas na vida real.

Juntos, podemos garantir que estas ferramentas possam ter um impacto na tua vida, na tua comunidade e no meio marinho.

Agenda

09:00	Boas vindas e introdução ao projeto
09:15	Apresentação das ferramentas desenvolvidas no projeto Marine SABRES
09:30	Teste das ferramentas
10:30	COFFEE BREAK
11:00	Mais teste e discussão
12:30	Recolha do Vosso contributo e/ou sugestões
13:00	ALMOÇO

Para quaisquer esclarecimentos, contactar
Gustavo M. Martins (gustavo.om.martins@uac.pt)





**MARINE
SABRES**

STAKEHOLDER WORKSHOP – 3ª RONDA

Junta-te a nós e testa as ferramentas

Vocês ajudaram a criá-las... agora ajudem-nos a testá-las!

5 DEZEMBRO 2025 | 09:00 - 13:30

📍 UNIVERSIDADE DOS AÇORES, TERCEIRA

Porquê participar?

- Ter a possibilidade de estar entre os primeiros a experimentar uma ferramenta interactiva desenvolvida com base no vosso contributo
- Ver como estas ferramentas podem auxiliar na gestão e conservação
- Ajudar a refinar a versão final, antes do seu lançamento
- Partilhar ideias com outros stakeholders e parceiros do projeto

Juntos, tornamos ideias em ações

para mais informações





Participa!

Nas primeiras duas rondas, vocês ajudaram a identificar prioridades e a dar forma às ferramentas que nos permitem melhor compreender e gerir o ambiente.

Agora, nesta terceira ronda, o teu contributo irá ajudar-nos a refinar e validar as ferramentas, garantindo que estas são práticas, de fácil utilização, e que estão aptas para serem usadas na vida real.

Juntos, podemos garantir que estas ferramentas possam ter um impacto na tua vida, na tua comunidade e no meio marinho.

Agenda

09:00	Boas vindas e introdução ao projeto
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09:30	Teste das ferramentas
10:30	COFFEE BREAK
11:00	Mais teste e discussão
12:30	Recolha do Vosso contributo e/ou sugestões
13:00	ALMOÇO

Para quaisquer esclarecimentos, contactar
Nuno Vaz Álvaro (nuno.ms.alvaro@uac.pt)



Appendix 4. GDPR and IPR protocol, and Informed Consent form

At the start of the workshops, stakeholders are requested to give consent for sharing the data resulting from the sessions. The partners within Marine SABRES respect the privacy of all participants and ensure that all provided personal information, will be dealt with following the rules below:

- Contact details and personal data will never be provided to third parties without the stakeholders' explicit unambiguous consent.
- Although eventually all research-data produced in Marine SABRES will be available for open access, personal data will be excluded from publication in case the stakeholder does not agree on sharing those data.
- At the start of the workshops we ask stakeholders, by means of a printed Document of Informed Consent, to indicate which option they want to follow regarding data protection and privacy.
- At any moment the stakeholder can request to remove their personal data out of any of the files.
- If, during the workshop, third parties (persons or institutions) are mentioned by name, these will be generalized in non-traceable terms in the result section of any report or publication.

The Document of Informed consent for this project follows below.



Funded by
the European Union

DOCUMENT OF INFORMED CONSENT

Project Title: MarineSABRES - Marine Systems Approaches for Biodiversity Resilience and Ecosystem Sustainability

EU Horizon Europe Grant Agreement No.: 101058956

Start date of the project: 1 September 2022

End date of the project: 31 August 2026

Project Website: <https://www.marinesabres.eu/>

You have been invited to voluntarily participate in research under the MarineSABRES project in the form of an event, a survey, or an interview.

Before participating, please read the information below carefully. Views and opinions are only those of the author(s) and do not necessarily reflect those of the European Union.

Neither the European Union nor the granting authority can be held responsible.

If statements in the document are unclear, do not hesitate to ask the contact researcher or coordinator for clarification.

1. Project summary

Marine SABRES is a 4-year EU research project aimed at conserving marine biodiversity by integrating ecosystem health with a resilient Blue Economy. MarineSABRES works towards a healthy balance between marine biodiversity, ecosystems, ocean economy, and social well-being. From the air we breathe to the food on our tables, clean, productive and biodiverse seas are vital to human wellbeing. Healthy marine ecosystems provide goods and benefits which support our economy and society. Yet, seas and coastal areas are affected by various human pressures and related changes. Therefore, the input of local communities is vital in charting the way forward.

2. Purpose of data collection

In the MarineSABRES project, stakeholders are asked to give their views on the functioning of the marine ecosystem, its biodiversity, the ecosystem services, and benefits derived from it and the socio-cultural and economic activities based on it. In addition, stakeholders are asked to help co-design and co-produce the research and outcomes developed in MarineSABRES. All stakeholders are given the possibility to provide feedback on the development of models and tools. Therefore, it is necessary to collect contact details from stakeholders who want to participate in the feedback process and/or co-design and co-production of the project. Resulting data will be specifically used to support the successful completion of the MarineSABRES project.

3. Benefit of participation

Participation is on an entirely voluntary basis, and you might not directly benefit. Nevertheless, by participating you will substantially contribute to the Marine SABRES project's aims in composing tools and instruments to optimize the use, governance, and management of marine coastal areas while safeguarding the health of marine ecosystems and biodiversity. You will ultimately benefit from a healthy and sustainable environment you are living in and that is based on the joint participation in the project's activities by you and your community.

4. Risks of participation

There are no risks foreseen in participation.

5. Compliance with ethical and legal regulations

We comply with EU and national ethical and legal regulations, including the latest GDPR (General Data Protection Regulation 2016/680) framework of the EU.

6. Privacy and data protection

MARINESABRES and its partners respect the privacy of participants in the survey and ensure that all contact details provided, will be dealt with following the rules below:

- Without the stakeholders' explicit, unambiguous consent, contact details will never be provided to third parties.
- Although eventually, all results and raw data produced in MARINESABRES will be available for open access, these results and data will not be traceable to a person or institute. They will be anonymised.
- Contact details will be excluded from the acknowledgements in publication if the stakeholder disagrees with sharing those data. On the other hand, all participants can be included in the acknowledgements or added as co-author in case of a major contribution to future publications.
- If third parties (persons or institutions) are mentioned by name during the interview, these will be generalised in non-traceable terms in the result section of any report or publication.
- Data from surveys and interviews will be recorded and stored on secure servers.
- Data might be processed and analysed for publication in reports, scientific journals and other project outputs, only anonymously. The retention time of the original research data is the same as the project duration. However, the anonymised resultant data may be stored longer for future research. The data controller keeps a copy of informed consent for up to 3 years after project closure, and the research participant can request access.
- MARINESABRES project partners and project management team reserve the right to use any photograph/video taken at any MARINESABRES. Project partners and project management team may use the photograph/video in publications or other media material produced, used or contracted by MARINESABRES, including but not limited to: brochures, invitations, books, newspapers, magazines, television, websites, etc.

7. Disclaimer

The content of this survey has been compiled with the utmost care in the frame of the MarineSABRES project. The responsible partner is Hummel Foundation for Sustainable Solutions (HuFoSS), Roosendaal, the Netherlands (contact Prof. Dr. Herman Hummel, herman.hummel@hufoss.nl). If you need to revoke or change provided or withdraw your participation in the event, survey or interview, this can be done by contacting herman.hummel@hufoss.nl. MarineSABRES and the responsible partners aim to keep the contact details in its repositories permanently as accurate and up-to-date as possible. Therefore, changes in contact details are always reserved.

MarineSABRES and its partners are in no way responsible and shall not be liable for any claims or damages that are the direct or indirect consequence of or in connection with the use of the information available in this survey.

8. Researcher contact

In case of any issues or questions, you can contact Prof. Dr. Herman Hummel, herman.hummel@hufoss.nl.

9. Copyright

All rights to the survey, or texts, services, products, and other items derived from the study, are based on and reserved to MarineSABRES, its partners, and participants of this survey unless otherwise stated. Survey materials can be used solely with the permission of the responsible partner (HuFoSS). Copies, adaptations, translations, edits, and changes to all or part of the survey, in any form or by any means, are strictly prohibited unless HuFoSS has granted prior written permission. Should you believe that your rights and/or third parties' rights are infringed, you can notify the responsible partners via the e-mail address herman.hummel@hufoss.nl.

10. Consent statement

Please indicate which option you want to follow regarding data protection and privacy.

MarineSABRES partners may use provided data (anonimised answers)		Third parties outside MarineSABRES (e.g. EU, UNESCO) may use provided data (anonimised answers)		Acknowledgements in resulting publication e.g. research reports, articles (Personal name and institute name can both be mentioned)			
Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Personal name included as data provider <input type="checkbox"/>	Institutional name included as data provider <input type="checkbox"/>	Personal and Institutional name included as data provider <input type="checkbox"/>	Anonymous (no mentioning in the acknowledgements) <input type="checkbox"/>
What is your gender? (you may also self-describe at the remarks)				Age	Do you allow for collected footage (photo/video) being shared in online sources (website/social media)?		
M <input type="checkbox"/>	F <input type="checkbox"/>	X <input type="checkbox"/>	Prefer not to say <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Remarks:							
In case you want to be informed on the progress of the project and the reports stemming from the surveys and interviews, then please write here your e-mail address:							

I have read and understood the consent terms and agree to participate in this study, including the processing of my responses by HuFoSS.

Participant name: _____ Date: _____ Participant signature: _____



Appendix 5. Presentation PowerPoint slides

Appendix 5.1. General introduction

 **MARINE SABRES**

Aiming to reverse biodiversity decline by strengthening the conservation of coastal and marine areas, balancing human and ecosystem needs, and upscaling ecosystem-based management

3rd Round of Stakeholder Consultations

Stakeholder appraisal and feedback on WP outcomes

December 2025 to March 2026

Azores

2 & 5 December 2025

Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet,
Vivien Laros, Jane van Wechem
HuFoSS, Roosendaal, the Netherlands



Funded by the European Union's
Horizon Europe programme under
grant agreement No.101058956



The third series of Stakeholder Consultations

- ❖ **Welcome and introduction**
- ↓ **Presentation of Marine SABRES**
 - introduction to the tools
 - link to MARBEFES
- ↓ **Hands-on tool testing**
 - the simple Social Ecological System (SES)
 - a Decision Support System (DSS)
- ↓ **Coffee break (15 min)**
- ↓ **Further testing**
 - the MARBEFES Toolbox
 - the BowTie tool (if time left)
- ↓ **Collecting your feedback**
- ↓ **Lunch**





MARINE SABRES

Welcome to the MarineSABRES workshop for Stakeholders

MarineSABRES aims to:

- reverse biodiversity decline
- strengthen the conservation of coastal and marine areas
- balance human and ecosystem needs
- and to upscale ecosystem-based management

Together with YOU:

- We have selected priorities in your coastal marine environment
- for ecological, social, and economic issues
- and composed an easy-to-use management- and decision support system



MARINE SABRES

Benefits of engaging with Marine SABRES

- Explore a **holistic approach** to environmental challenges.
- Embed **your local knowledge** in the consultation process
- Voice **your priorities and concerns**, to be included
- Compose together a **practical tool** that is useable and useful, **for YOU**



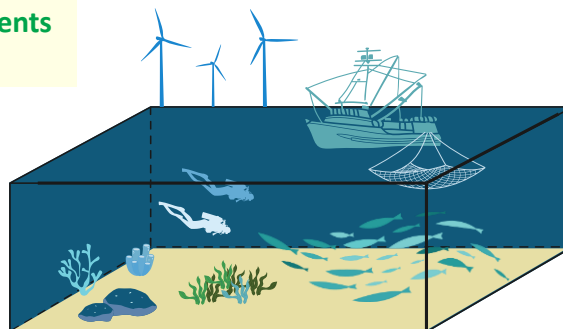
Basic tool to understand our Coastal Systems is the Simple SES (Social-Ecological System)

Developed by Michael Elliott, Gemma Smith, Amanda Gregory, and Jonathan Atkins
IECS Ltd.



What is a Social-Ecological System?

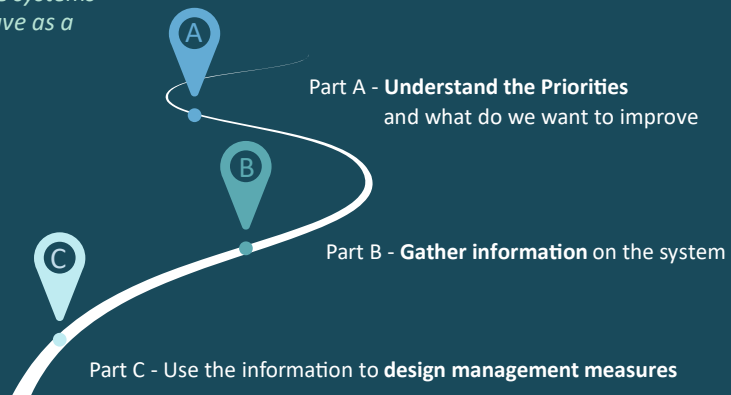
An area where human and natural elements exist together and impact each other.



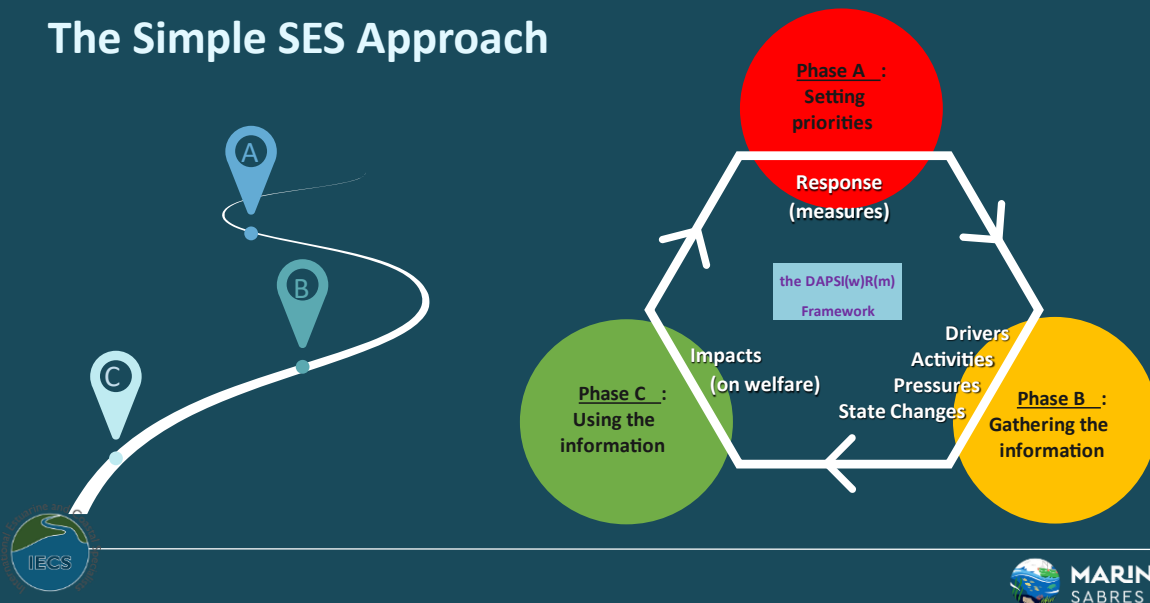
The Simple SES Approach

Helps to manage complex marine systems by understanding how they behave as a whole

It is as 'simple' as A, B, C...



The Simple SES Approach



from
Social - Ecological
Systems (SES)
to
Decision Support
Systems (DSS)



In Marine SABRES the information for the Social -Ecological Systems has been integrated in a Decision Support System – the ShinyApp DSS

- The overarching aim of a Decision -Support System is to **support and enable informed decision -making**
- A DSS can support decision-makers in balancing or understanding challenges, such :
 - risks, uncertainties and find alternatives
 - differing interests among the public and find solutions

Developed by KU
(Arturas Razinkovas-Baziukas c.s.)



Klaipeda
University
Marine Research
Institute



7 STEPS TO EFFECTIVE DECISION MAKING

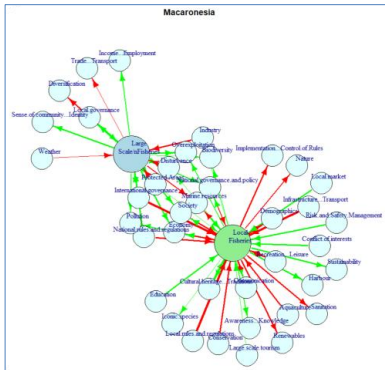
Decision making is the process of making choices by identifying a decision, gathering information, and assessing alternative resolutions.



<https://www.umassd.edu/fycm/decision-making/process/>



The Marine SABRES DSS will consist of some components to help and guide you to assess specific user needs



Local SES analysis tool based on your input

Ready for testing



Geographic Information (GIS) spatial data tool



SES related governance

Ready for testing



Benefits of a DSS

- Simplifying a complex system of human activities and marine ecosystems
- Co-develop a system with scientists and stakeholders together, based on shared understanding of the system
- Provide clear visualizations of social and ecological interactions
- Allow practitioners to identify points in the system where management measures will be effective
- Enabling the implementation of Ecosystem-Based Management
- Provide information of main environmental legislation sources relevant to your needs (e.g. placement of Offshore Wind Parks in the coastal zone)



You can now build and test your own local simple -SES and DSS tool



Select network file format:
 CSV edge list

Upload Your Data (CSV format edge list)
 Browse... tuscany_kumu_v27_net(n).csv
 Upload complete

Create/Update Graph

Node Shape
 dot

Edge Style
 to

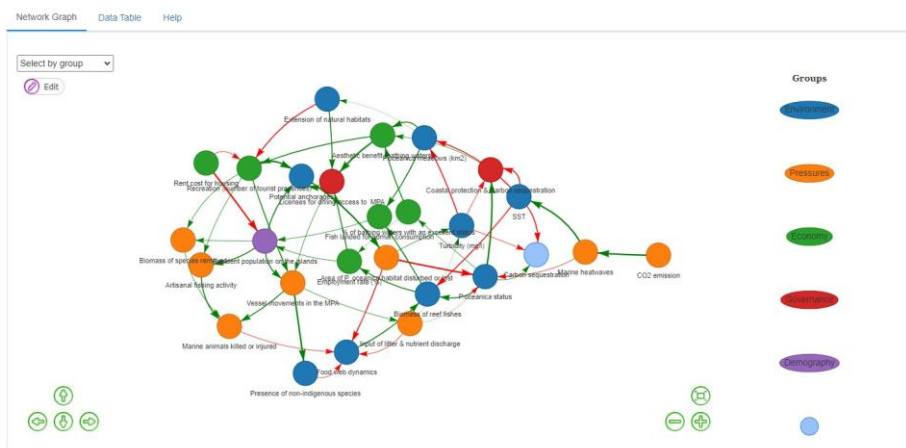
Show Labels
 Use Edge Weights
 Use Edge Colors
 Show Legend

Run CLD loop analysis

Download Plot as HTML

Group Colors

Environment	Pressures	Economy
#1F77B4	#FF7F0E	#2CA02C
Governance	Demography	
#D62728	#9467BD	



Klaipeda University
 Marine Research Institute



Decision Support System

- Go to: <http://193.219.76.93:3838/marinesabres>



http://laguna.ku.lt:3838/marinesabres/?user_level=beginner






Decision Support System - Review

- Mentimeter link:



Appendix 5.3. Introduction to the Governance tool



MARINE SABRES

The simple SES related Governance tool

Developed by LWE (Joaquin Lopez c.s.) and IECS (Mike Elliot c.s.)

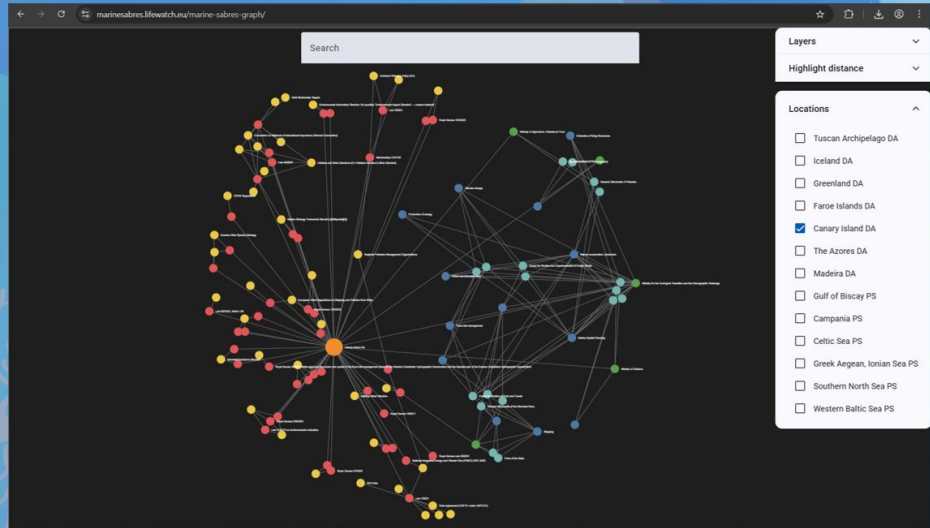








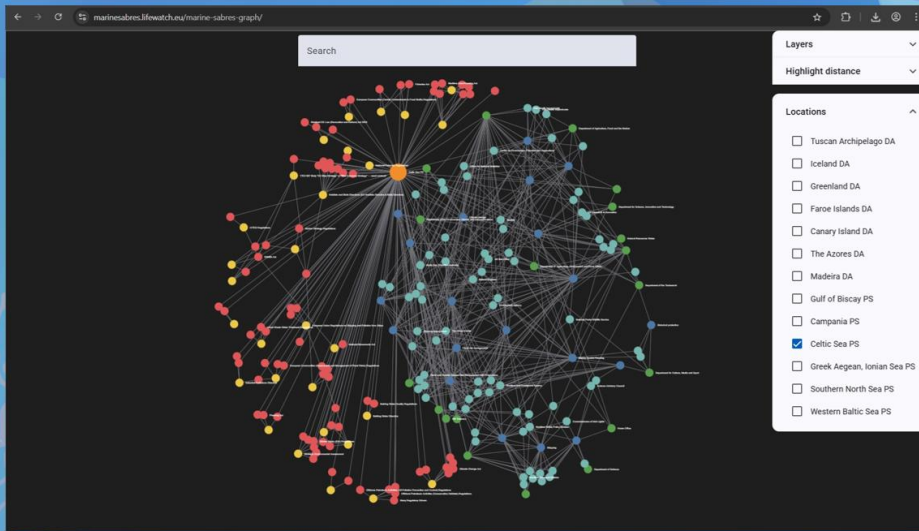

MARBEFES Project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement no101060937 and UKRI under Grant Agreements 10040216, 10048815 and 10041354



Governance tool

Governance tool



Governance tool – Now you can try!

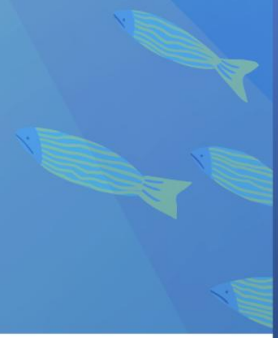
- Go to: marbefes.lifewatch.eu
- Or scan ->





Governance tool - Review

- Mentimeter link: <http://marinesabres.lifewatch.eu>
-



Appendix 5.4. Introduction to the MARBEFES Toolbox

MARBEFES

Toolbox website for Stakeholders

MARBEFES TOOLBOX
Tools for valuing marine biodiversity and ecosystem services

VIEW TOOLS

Hello

My name is Marby, how can I help you?

Type here your question or message... **Start Conversation**

- Find tools based on topic of interest
- Discover tools based on your sector
- See where tools have been tested
- Find decision-support tools
- Discover methods and approaches
- Explore based on type of output

Developed by AkvaplanNiva (Frida Cnossen c.s.) and LWE (Joaquin Lopez c.s.)

Akvaplan niva

LifeWatch ERIC

MARBEFES Project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement no101060937 and UKRI under Grant Agreements 10040216, 10048815 and 10041354

Toolbox Website (by AkvaplanNiva)

- Click [here](#)
- Or scan QR code

<https://xd.adobe.com/view/a30029fd-3569-4d5c-9979-28b50218acb6-f653/>

Toolbox Website - Review

- Mentimeter link:
- Or scan ->



**MARINE
SABRES**

MARBEFES



**Thank you for your attention
and feedback !**

Herman Hummel, Hanie Matajinimvar, Dominga van der Vliet,
Vivièn Laros, Jane van Wechem
HuFoSS, Roosendaal, the Netherlands



MARBEFES Project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement no101060937 and UKRI under Grant Agreements 10040216, 10048815 and 10041354



Appendix 6. Results of Mentimeter Sessions

Appendix 6.1. Session 1: Testing the sSES-DSS tool

Question type	Location of SH	SH	Q1. What professional sector are you representing?
Multiple choice	Sao Miguel	1	Authorities (governance / policy)
	Sao Miguel	2	Academia / Research
	Sao Miguel	3	Tourism
	Sao Miguel	4	Academia / Research
	Sao Miguel	5	Academia / Research
	Sao Miguel	6	
	Sao Miguel	7	Authorities (governance / policy)
	Sao Miguel	8	Tourism
	Sao Miguel	9	Tourism
	Sao Miguel	10	Academia / Research
	Sao Miguel	11	
	Terceira	12	Other
	Terceira	13	Academia / Research
	Terceira	14	Authorities (governance / policy)
Question type	Location of SH	SH	Q2. I rate this tool:
Scale	Sao Miguel	1	4
	Sao Miguel	2	3
	Sao Miguel	3	4
	Sao Miguel	4	
	Sao Miguel	5	5
	Sao Miguel	6	4
	Sao Miguel	7	4
	Sao Miguel	8	5
	Sao Miguel	9	3
	Sao Miguel	10	3
	Sao Miguel	11	
	Terceira	12	5
	Terceira	13	4
	Terceira	14	4
Question type	Location of SH	SH	Q3. I will use this tool:
Scale	Sao Miguel	1	3
	Sao Miguel	2	2
	Sao Miguel	3	
	Sao Miguel	4	
	Sao Miguel	5	3
	Sao Miguel	6	3
	Sao Miguel	7	3
	Sao Miguel	8	2
	Sao Miguel	9	2
	Sao Miguel	10	4
	Sao Miguel	11	3
	Terceira	12	5
	Terceira	13	3
	Terceira	14	4
Question type	Location of SH	SH	Q4. Others will use this tool:
Scale	Sao Miguel	1	3
	Sao Miguel	2	4

Sao Miguel	3
Sao Miguel	4
Sao Miguel	5 2
Sao Miguel	6 3
Sao Miguel	7 5
Sao Miguel	8 5
Sao Miguel	9 4
Sao Miguel	10 3
Sao Miguel	11 2
Terceira	12 4
Terceira	13 4
Terceira	14 4

Question type	Location of SH	SH Q5. Why will you use this tool?
Open ended	Sao Miguel	1 To monitorize and fiscalize fishing and tourism activities
	Sao Miguel	2 Checking links
	Sao Miguel	2 Assessing priority areas
	Sao Miguel	2 Selecting or evaluating different management strategies/options
	Sao Miguel	3
	Sao Miguel	4
	Sao Miguel	5 To see changes in drivers, impacts
	Sao Miguel	6 A tool to improve impact management
	Sao Miguel	7 None.
	Sao Miguel	8 To think about the impacts
	Sao Miguel	8 To check who can be calles to action
	Sao Miguel	9 To better understand and explore how SES work
	Sao Miguel	9 Educational tool Because it will help me to open my perspectives , for example, from a researcher
	Sao Miguel	10 point of view regarding other stakeholders
Sao Miguel	11 To understand the changes between the drivers, pressures and the impacts.	
Sao Miguel	11 To understand the changes in the system Assist local decision making	
Terceira	12 Educacional purposes	
Terceira	13 Explore how SES work into practice.	
Terceira	14 To help in decisions	

Question type	Location of SH	SH Q6. What could be a possible reason you don't use this tool?
Open ended	Sao Miguel	1 NA
	Sao Miguel	2 N.A.
	Sao Miguel	3
	Sao Miguel	4
	Sao Miguel	5 NA
	Sao Miguel	6 NA
	Sao Miguel	7 NA
	Sao Miguel	8 It is no suitable for my daily work
	Sao Miguel	9 It falls out of my daily work
	Sao Miguel	10 Maybe time consuming
	Sao Miguel	11 NA
	Terceira	12 NA
	Terceira	13 To complicated.
	Terceira	14 Sometimes is hard to use

Question type	Location of SH	SH Q7. What should we improve in the next version of the tool?
Open ended	Sao Miguel	1 To have just onde language
	Sao Miguel	2 Better functionalit/ integration
	Sao Miguel	2 Contrast between different options

Sao Miguel	3
Sao Miguel	4
Sao Miguel	5 Interaction with prévios results
Sao Miguel	6
Sao Miguel	7 Maritime incidents
Sao Miguel	8 AI sugestions for solving the problems issued
Sao Miguel	9
Sao Miguel	10
Sao Miguel	11 Simple tutorial instructions and demonstration
Terceira	12 Remove the small bugs
Terceira	13
Terceira	14 The automatic saving

Question type	Location of SH	SH	Q8. Did any words or phrases in the tool confuse you?
Open ended	Sao Miguel	1	Translation
	Sao Miguel	2	Better translation in some parts
	Sao Miguel	3	
	Sao Miguel	4	
	Sao Miguel	5	Language
	Sao Miguel	6	Translation
	Sao Miguel	7	Translation
	Sao Miguel	8	Herman presentation 🤖
	Sao Miguel	8	Terms used needed background knowledge
	Sao Miguel	9	Translation needs improvement. But in English is ok
	Sao Miguel	10	
	Sao Miguel	11	Translation
	Sao Miguel	11	No time to see un details all the options
	Sao Miguel	11	Some words optins missing
Terceira	12	Yes, due to automatic translator, some words loose the original sense The negative/positive influences provided automatically by the tool sometimes	
Terceira	13	were not clear. The positive and negative choices on the analysis sometimes was hard to	
Terceira	14	understand	

Question type	Location of SH	SH	Q9. What questions in your daily work would you use this tool to answer?
Open ended	Sao Miguel	1	Detect overfishing or envirmetal crimes
	Sao Miguel	2	Checking loops to quickly understand chains of impact
	Sao Miguel	3	
	Sao Miguel	4	
	Sao Miguel	5	How to reduce impacts
	Sao Miguel	6	
	Sao Miguel	7	For maritime security/safety
	Sao Miguel	8	NA
	Sao Miguel	9	
	Sao Miguel	10	Drivers and impacts of invasive species
	Sao Miguel	11	How to minimize impacts
	Terceira	12	Whats the impact of marine waste in the azorean socioeconomical and cultural future (context of an educational activity)? How does tourism afect marine and coastal ecosystems and its services?
	Terceira	13	What Influences biodiversity loss in a specific area and what measures can be implemented to counteract that
	Terceira	14	want to protect the coastal área and the wetlands. How could the coastal chances afect the birds in the coastal wetlands?

Question type	Location of SH	SH	Q10. The SES tool is easy to use?
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Scale	Sao Miguel	1	5
	Sao Miguel	2	3
	Sao Miguel	3	
	Sao Miguel	4	
	Sao Miguel	5	3
	Sao Miguel	6	4
	Sao Miguel	7	4
	Sao Miguel	8	4
	Sao Miguel	9	3
	Sao Miguel	10	3
	Sao Miguel	11	3
	Terceira	12	3
	Terceira	13	3
	Terceira	14	4

Question type	Location of SH	SH	Q11. How likely are you to use the Marine SABRES SES-DSS tool in future projects?
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Multiple choice	Sao Miguel	1	Unsure
	Sao Miguel	2	Unsure
	Sao Miguel	3	
	Sao Miguel	4	
	Sao Miguel	5	likely
	Sao Miguel	6	Unsure
	Sao Miguel	7	Very likely
	Sao Miguel	8	Unsure
	Sao Miguel	9	Unlikely
	Sao Miguel	10	likely
	Sao Miguel	11	Unsure
	Terceira	12	likely
	Terceira	13	likely
	Terceira	14	likely

Question type	Location of SH	SH	Q12. Was the manual Helpful?
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Multiple choice	Sao Miguel	1	Neutral
	Sao Miguel	2	Neutral
	Sao Miguel	3	
	Sao Miguel	4	
	Sao Miguel	5	
	Sao Miguel	6	Neutral
	Sao Miguel	7	Neutral
	Sao Miguel	8	Neutral
	Sao Miguel	9	Somewhat helpful
	Sao Miguel	10	
	Sao Miguel	11	Neutral
	Terceira	12	Very helpful
	Terceira	13	Very helpful
	Terceira	14	Very helpful

Question type	Location of SH	SH	Q13. What should we improve in the next version of the manual?
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Open ended	Sao Miguel	1	NA
	Sao Miguel	2	
	Sao Miguel	3	
	Sao Miguel	4	
	Sao Miguel	5	Translation
	Sao Miguel	6	
	Sao Miguel	7	Interesting
	Sao Miguel	8	Send in advanced ;)

Sao Miguel	9
Sao Miguel	10
Sao Miguel	11 Short version
Terceira	12 Its okay
Terceira	13 NA
Terceira	14 NA

Question type	Location of SH	SH Q14. Do you think manual is easy to follow?
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Multiple choice	Sao Miguel	1
	Sao Miguel	2
	Sao Miguel	3
	Sao Miguel	4
	Sao Miguel	5
	Sao Miguel	6
	Sao Miguel	7
	Sao Miguel	8
	Sao Miguel	9
	Sao Miguel	10
	Sao Miguel	11
	Terceira	12 Very helpful
	Terceira	13 Very helpful
	Terceira	14 Very helpful

Question type	Location of SH	SH Q15. Describe your experience with the tool in two words
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Open ended	Sao Miguel	1 Interesting
	Sao Miguel	2 Easy but technical
	Sao Miguel	3
	Sao Miguel	4
	Sao Miguel	5 Interesting useful
	Sao Miguel	6 Technical
	Sao Miguel	7
	Sao Miguel	8 Easy & New
	Sao Miguel	9 Exploratory tool
	Sao Miguel	10 Helpful but complex
	Sao Miguel	11 Exploratory tool
	Terceira	12 Powerful Time demanding
	Terceira	13 Helpful
	Terceira	14 Very helpful

Question type	Location of SH	SH Q16. Any comments... ?
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Open ended	Sao Miguel	1 Good job!
	Sao Miguel	2 NA
	Sao Miguel	3
	Sao Miguel	4
	Sao Miguel	5 NA
	Sao Miguel	6 NA
	Sao Miguel	7 NA
	Sao Miguel	8 Thank you for sharing and inviting
	Sao Miguel	9 NA
	Sao Miguel	10 Thank you consulting stakeholders
	Sao Miguel	11 NA
	Terceira	12 Have to re test it with wayyyy less options clicked.
	Terceira	13 NA
	Terceira	14 NA

Appendix 6.2. Session 2: Testing the Governance tool

Question type	Location of SH	SH	Q1. What professional sector are you representing?
Multiple choice	Sao Miguel	1	Authorities (governance / policy)
	Sao Miguel	2	Academia / Research
	Sao Miguel	3	Academia / Research
	Sao Miguel	4	Academia / Research
	Sao Miguel	5	Tourism
	Sao Miguel	6	Authorities (governance / policy)
	Sao Miguel	7	Tourism
	Sao Miguel	8	Tourism
	Sao Miguel	9	Academia / Research
	Terceira	10	Other
	Terceira	11	Academia / Research
	Terceira	12	Authorities (governance / policy)
Question type	Location of SH	SH	Q2. I rate this tool:
Scale	Sao Miguel	1	5
	Sao Miguel	2	4
	Sao Miguel	3	4
	Sao Miguel	4	4
	Sao Miguel	5	4
	Sao Miguel	6	3
	Sao Miguel	7	4
	Sao Miguel	8	4
	Sao Miguel	9	4
	Terceira	10	4
	Terceira	11	3
	Terceira	12	4
Question type	Location of SH	SH	Q3. I will use this tool:
Scale	Sao Miguel	1	5
	Sao Miguel	2	4
	Sao Miguel	3	4
	Sao Miguel	4	4
	Sao Miguel	5	4
	Sao Miguel	6	3
	Sao Miguel	7	3
	Sao Miguel	8	4
	Sao Miguel	9	3
	Terceira	10	4
	Terceira	11	3
	Terceira	12	3
Question type	Location of SH	SH	Q4. Others will use this tool:
Scale	Sao Miguel	1	4
	Sao Miguel	2	4
	Sao Miguel	3	4
	Sao Miguel	4	4
	Sao Miguel	5	4
	Sao Miguel	6	
	Sao Miguel	7	4

Sao Miguel	8	5
Sao Miguel	9	3
Terceira	10	3
Terceira	11	3
Terceira	12	3

Question type	Location of SH	SH Q5. Why will you use this tool?
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Open ended	Sao Miguel	1	Muita informação disponibilizada numa forma simples
	Sao Miguel	2	Easy and quick way to get information
	Sao Miguel	2	Quickly select the most pertinent legislation
	Sao Miguel	3	Easy to get regulation information
	Sao Miguel	3	Several regulation connection
	Sao Miguel	4	Good souce of information
	Sao Miguel	4	Useful
	Sao Miguel	5	Easy way to find a lot of info
	Sao Miguel	6	Need to explore more
	Sao Miguel	7	To search for connections between the systems to get in touch
	Sao Miguel	7	To find specific legislation
	Sao Miguel	7	To understand the complexity of the system
Sao Miguel	8	Good summary of information	
Sao Miguel	9	For legislation information Explain interactions between driving agents, impacts, institutions, etc.	
Terceira	10	(Educational)	
Terceira	11	To explore which are the implemented policies at a particular region.	
Terceira	12	to search for laws or some organizations related to work	

Question type	Location of SH	SH Q6. What could be a possible reason you don't use this tool?
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Open ended	Sao Miguel	1	NA
	Sao Miguel	2	
	Sao Miguel	3	NA
	Sao Miguel	4	NA
	Sao Miguel	5	NA
	Sao Miguel	6	NA
	Sao Miguel	7	Not on a daily base
	Sao Miguel	8	
	Sao Miguel	9	NA
	Terceira	10	NA
	Terceira	11	Not user friendly (many interactions)
	Terceira	12	it's a lot of information in the beggining, but with time is a very good tool

Question type	Location of SH	SH Q7. What do you miss in this tool?
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Open ended	Sao Miguel	1	Connection between sector and legislation
	Sao Miguel	2	Not sure yet. Would probably need more time to explore it
	Sao Miguel	3	Download report with the information.
	Sao Miguel	4	To be uses with mobile phones
	Sao Miguel	5	Better connection between layers
	Sao Miguel	6	NA
	Sao Miguel	7	Need further exploration to better understand that
	Sao Miguel	8	Some relevant legislation for the Region
	Sao Miguel	9	Maybe other layers but need more exploration
	Terceira	10	Na
	Terceira	11	Schematized information

Terceira 12 the azores :)

Question type Location of SH SH Q8. Did any words or phrases in the tool confuse you?

Open ended	Sao Miguel	1 No
	Sao Miguel	2 No. But probably this would need translation to be used in other countries
	Sao Miguel	3 Not enough time to check them all
	Sao Miguel	3 Some overlay of information
	Sao Miguel	4 No
	Sao Miguel	5 No
	Sao Miguel	6 No
	Sao Miguel	7 Nop... for now
	Sao Miguel	8 No, but it will be beneficial a short description of the layers
	Sao Miguel	9 No
	Terceira	10 Umbrella?
	Terceira	11 Umbrella
	Terceira	12 NA

Question type Location of SH SH Q9. What questions in your daily work would you use this tool to answer?

Open ended	Sao Miguel	1 Fiscalização de vários setores
	Sao Miguel	2 Identify relevant authority/regulator/directive for a given subject
	Sao Miguel	3 Search for regulations regarding conservation
	Sao Miguel	4 Regulation related with non indigenous species
	Sao Miguel	5 Specific legislation of the operation
	Sao Miguel	6
	Sao Miguel	7 Legislation and key stockholders
	Sao Miguel	8 Identify legislation that directly applies to the operation What are marine protected areas regulations and what agency is responsible, for
	Sao Miguel	9 example
	Terceira	10 How does environmental legislation affect the azorean ecosystems?
	Terceira	11 What are the implemented legislations at a particular place.
	Terceira	12 what kind of organizations can I work with as partner

Question type Location of SH SH Q10. The Governance tool is easy to use?

Scale	Sao Miguel	1 5
	Sao Miguel	2 5
	Sao Miguel	3 4
	Sao Miguel	4 4
	Sao Miguel	5 4
	Sao Miguel	6 5
	Sao Miguel	7 4
	Sao Miguel	8 5
	Sao Miguel	9 4
	Terceira	10 3
	Terceira	11 4
	Terceira	12 4

Question type Location of SH SH Q11. How likely are you to use the Governance tool in future projects?

Multiple choice	Sao Miguel	1 Very likely
	Sao Miguel	2 likely
	Sao Miguel	3 likely
	Sao Miguel	4 likely
	Sao Miguel	5 likely
	Sao Miguel	6 likely

Sao Miguel	7	likely
Sao Miguel	8	likely
Sao Miguel	9	likely
Terceira	10	likely
Terceira	11	Unsure
Terceira	12	likely

Question type	Location of SH	SH Q12. Describe your experience with the tool in two words
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Open ended	Sao Miguel	1	Easy and informative
	Sao Miguel	2	Easy & informative
	Sao Miguel	3	Interesting useful
	Sao Miguel	4	Easy useful practical
	Sao Miguel	5	Useful
	Sao Miguel	6	Interesting
	Sao Miguel	7	Easy and interactive
	Sao Miguel	8	Easy & helpful
	Sao Miguel	9	Easy Complexity
	Terceira	10	Connectivity
	Terceira	11	Difficult to interpret
	Terceira	12	A lot of information, but helpful

Question type	Location of SH	SH Q13. Any comments...?
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Open ended	Sao Miguel	1	Good job!
	Sao Miguel	2	Search bar too long. It overlaps other menus
	Sao Miguel	3	NA
	Sao Miguel	4	Very good
	Sao Miguel	5	NA
	Sao Miguel	6	NA
	Sao Miguel	7	NA
	Sao Miguel	8	
	Sao Miguel	9	
	Terceira	10	Have to invest some time
	Terceira	11	Make it more user friendly could be beneficial
	Terceira	12	NA

Appendix 6.3. Session 3: Testing the Toolbox website

Question type	Location of SH	SH	Q1. What professional sector are you representing?
Multiple choice	Sao Miguel	1	Authorities (governance / policy)
	Sao Miguel	2	Academia / Research
	Sao Miguel	3	Authorities (governance / policy)
	Sao Miguel	4	Tourism
	Sao Miguel	5	Academia / Research
	Terceira	6	Other
	Terceira	7	Academia / Research
	Terceira	8	Authorities (governance / policy)
Question type	Location of SH	SH	Q2. I like this website:
Scale	Sao Miguel	1	4
	Sao Miguel	2	3
	Sao Miguel	3	3
	Sao Miguel	4	5
	Sao Miguel	5	4
	Terceira	6	4
	Terceira	7	4
	Terceira	8	4
Question type	Location of SH	SH	Q3. Why will you use this website?
Open ended	Sao Miguel	1	Not on daily basics
	Sao Miguel	2	Research
	Sao Miguel	3	Need more time do explore
	Sao Miguel	4	Research
	Sao Miguel	4	Not on daily base. Still need to explore it or see it functioning but it looks helpful to gather
	Sao Miguel	5	information on specific research concerns
	Terceira	6	Environmental Education /educational purposes
	Terceira	7	Search for tools
Terceira	8	it has a lot of interesting information that could be helpful	
Question type	Location of SH	SH	Q4. What could be a possible reason you don't use this website?
Open ended	Sao Miguel	1	Not fit on my work
	Sao Miguel	2	NA
	Sao Miguel	3	NA
	Sao Miguel	4	Not daily
	Sao Miguel	5	Not sure yet
	Sao Miguel	6	NA
	Terceira	7	na
	Terceira	8	NA
Question type	Location of SH	SH	Q5. Is there anything you think could be improved in the website setup?
Open ended	Sao Miguel	1	NA
	Sao Miguel	2	Not sure yet. Need more time to explore it
	Sao Miguel	3	NA
	Sao Miguel	4	To early to know
	Sao Miguel	5	Still early to know
	Sao Miguel	6	NA
	Terceira	7	I am not able to download a tool manual
	Terceira	8	NA

Question type	Location of SH	SH	Q6. Did any words or phrases in the website confuse you?
Open ended	Sao Miguel	1	NA
	Sao Miguel	2	No
	Sao Miguel	3	NA
	Sao Miguel	4	
	Sao Miguel	5	Not yet
	Sao Miguel	6	No
	Terceira	7	No
	Terceira	8	NA
Question type	Location of SH	SH	Q7. What questions in your daily work would you use this website to answer?
Open ended	Sao Miguel	1	NA
	Sao Miguel	2	Need to explore it further.
	Sao Miguel	3	Information about depth, morfology of the cost,...
	Sao Miguel	4	Dont know yet
	Sao Miguel	5	It is still confusing, would need more time
	Sao Miguel	6	How can we visualize the interactions between A, B, C...etc
	Terceira	7	Search for tools related to marine biodiversity monitoring
	Terceira	8	related to ecological interaction
Question type	Location of SH	SH	Q8. The toolbox-website is easy to use?
Scale	Sao Miguel	1	4
	Sao Miguel	2	5
	Sao Miguel	3	3
	Sao Miguel	4	4
	Sao Miguel	5	3
	Sao Miguel	6	4
	Terceira	7	4
	Terceira	8	4
Question type	Location of SH	SH	Q9. How likely are you to use the website in future projects?
Multiple choice	Sao Miguel	1	Unsure
	Sao Miguel	2	Unsure
	Sao Miguel	3	likely
	Sao Miguel	4	likely
	Sao Miguel	5	likely
	Sao Miguel	6	Unsure
	Terceira	7	Unsure
	Terceira	8	likely
Question type	Location of SH	SH	Q10. Describe your experience with the website in two words
Open ended	Sao Miguel	1	Easy
	Sao Miguel	2	Handy
	Sao Miguel	3	Ambitious
	Sao Miguel	4	Need Explore
	Sao Miguel	5	Needs development Helpful
	Sao Miguel	6	Time demanding
	Terceira	7	Good resources
	Terceira	8	Im not sure because we can access mutch, but it is very intuitive and can be helpful
Question type	Location of SH	SH	Q11. Any comments...?
Open ended	Sao Miguel	1	Good job!
	Sao Miguel	2	NA

Sao Miguel	3	NA
Sao Miguel	4	NA
Sao Miguel	5	
Sao Miguel	6	NA
Terceira	7	
Terceira	8	NA