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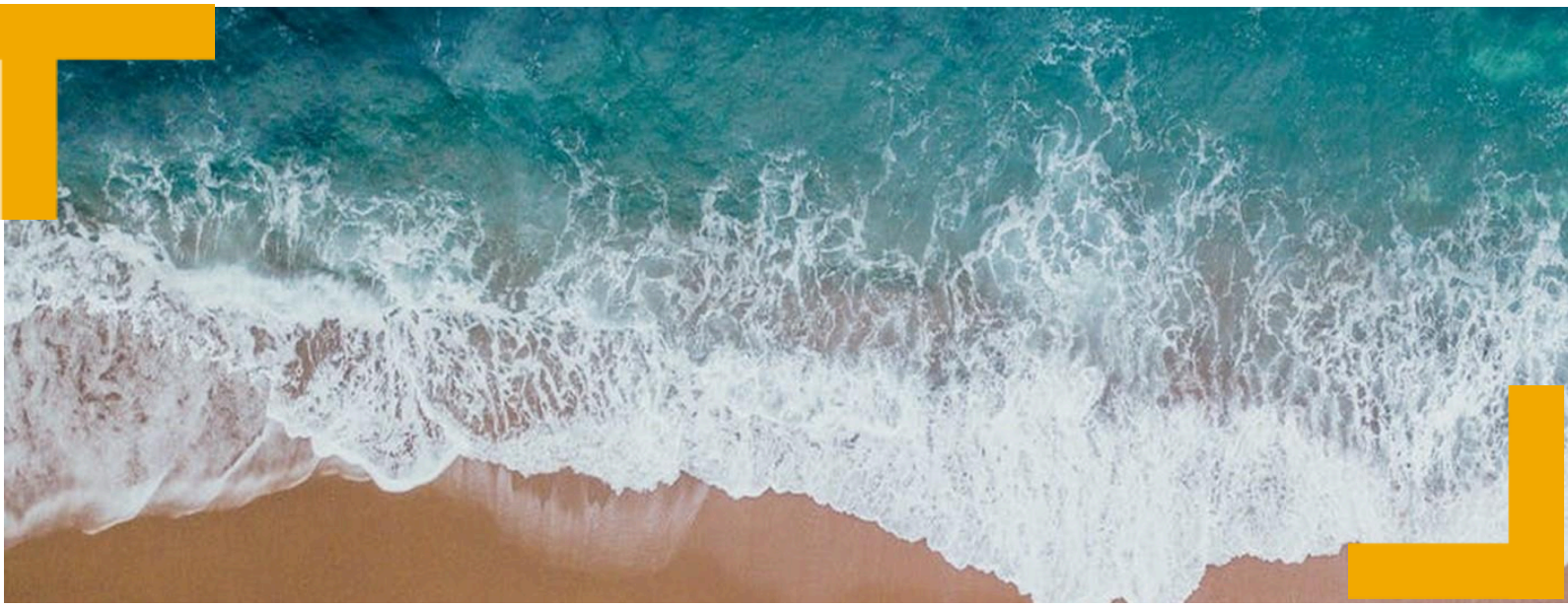

December 2025

METHODOLOGY VALIDATION ON ANTHROPIC ACTIVITIES IMPACTS

Deliverable D.3.1.1

https://medsearise.interreg-euro-med.eu/

ANAT LIKI | ARPA FVG | CCI NICE CÔTE D'AZUR | UCG | INSTITUT ZA BIOLOGIJU MORA | Cambra de Comerç de Barcelona | L-Università ta' Malta

Deliverable ID

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Project priority	Greener MED
Specific objective	RSO2.4 Promoting climate change adaptation and disaster risk prevention, resilience, taking into account eco-system based approaches
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Deliverable title	Methodology validation on anthropic activities impacts
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Work package number	3
Work package title	Methodology validation, capacity building and amplification
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Activity number	3.1
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Document history

Versions	Date	Document status	Delivered by
Version 0.1	23/10/25	Draft	PP2
Version 1.0	26/12/25	Final	PP2

Table of contents

Abbreviations

ANATOLIKI	Organisation for Local Development, Anatoliki S.A. – Project Partner - LP1
ARPA FVG	Regional Environmental Agency of Friuli Venezia Giulia Region- Project Partner - PP2
CCINCA	Chamber of Commerce and Industry Nice Côte d'Azur - Project Partner - PP3
UoM-IMBK	Public institution University of Montenegro - Institute of Marine Biology - Project Partner - PP4
BCC	Barcelona Chamber of Commerce - Project Partner - PP5
UM	University of Malta - Department of Geosciences- Project Partner - PP6
PP	A Project Partner, in general. Nobody specifically indicated
PPs	All Project Partners
SWOT	Strengths, Weaknesses, Opportunities, Threats
GWL	Global Warming Level
WP1	Work Package 1 of the MedSeaRise project - Information retrieval, data input and stakeholder awareness
WP2	Work Package 2 of the MedSeaRise project - Information analyses, methodology development and tools generation
WP3	Work Package 3 of the MedSeaRise project - Methodology validation, capacity building and amplification

This is a deliverable of the project MedSeaRise. The project contributes to the Natural Heritage mission of the Euro-MED Programme and it belongs to the Study Project class.

The document summarizes the work done in the frame of the project activity 3.1, describing how the project partners have shared the results of the MedSeaRise methodology application with the stakeholders.

Specifically, here are reported the basic concepts that have led to a common approach for the methodology validation that is based on the feedback of the stakeholders and the experts which has been used to quantify the methodology usefulness and efficacy by means of the SWOT analysis technique.

Starting from an outlook on the aim and the objectives of the methodology validation, then the validation concepts are described in detail with the aid of examples that have supported the PPs in the harvesting of the needed information and its analysis.

The document is completed with a summary of the available SWOT analyses and annexes that give further insights to specific aspects of the work done. Deliverable indicators are reported too.

The methodology validation aim

Introduction and Objectives

This document presents a specific contribution in the achievement of the general MedSeaRise WP3 objective, namely the validation of the methodology on the sea level climate scenarios data usage and the related risk assessment processes. This was carried out by means of examples of MedSeaRise application to a selected set of cases, which has been identified thanks to the stakeholders participation and the experts analyses.

The methodology and the supporting tools, such as datasets and benchmarks, which have been developed through the MedSeaRise projects activities belonging to WP1 and WP2, required to be properly presented and explained to all the stakeholders who have expressed interest in the project results. That gave them the awareness of the ideas and methods the project has produced, showing applications that are meant to be replicated to a larger spectrum of sea level related impacts.

It is expected that the work done by the PPs in this project activity contributes to increase the capacity building of the involved actors, besides to prepare the ground for the amplification of the project results with further application and tests across the cooperation area too. Specifically, one of the results foreseen to come from the Activity 3.1 is the evaluation of the MedSeaRise methodology efficacy and its easiness in the application. That result was achieved thanks to the involvement of stakeholders, associated partners and experts.

In fact, application of the methodology on specific impacts, first has produced a set of case studies and, in a second phase, the evolution of selected subset of those in benchmarks, namely standard example of risk assessment for an impact due to the increase of the sea level rise that has to be considered as a tool for the evaluation and comparison of the risk sensitivity from the input data on the sea level trends, according to a specific metric.

In a series of dedicated meetings, benchmarks have been presented to the stakeholders together with a schematic summary description of the MedSeaRise methodology. During such meetings, the participants followed the practical application of the conceptual steps that starting from the finding of the suitable sets of data on sea level rise scenarios, proceeding with the datasets retrieval and usage, according to the guidelines defined in the WP2, lead to the risk assessment.

After the presentation, each stakeholder was asked to fill in a questionnaire. The addressed questions focus on the easiness and difficulties in understanding and applying the methodology, besides to the opportunities the methodology can exploit in the environment in which the stakeholder would apply it or the threats against which its application could fall.

To allow a comparison among all the results coming from each interaction PPs have with the stakeholders, in the frame of the activity 3.1, a guideline was defined on how to organize the meetings, to present the MedSeaRise methodology and to generate the

questionnaire. The guideline is completed with a few rules on the conduction of the quantitative SWOT analysis, using the answers received through the questionnaire. That allowed us to pick up which of the external and internal factors of the methodology have to be considered for further improvements.

This deliverable describes how the MedSeaRise methodology validation, applied to classes of anthropic impacts, has been blueprint and performed. The results of the SWOT analyses are annexes of this deliverable and are available as files attached to the document.

Basic concepts of methodology validation

The key points of methodology validation

The methodology developed in the frame of the MedSeaRise project is meant for an effective use of sea level rise scenarios in climate change impact risk assessment. It is validated through the involvement of stakeholders, associated partners and experts.

This means that each PP collects the feedback from the involved actors. Those information are harvested organizing meetings with stakeholders, associated partners and experts, if the latter are needed.

During those meetings, the methodology is presented in a summary, by points, or in detail; that is up to the meeting organizers. Furthermore, one or more benchmarks are shown and commented to describe the application of the methodology, step by step.

Naturally, the benchmarks are chosen among those the PP has generated for the area on which it has focused the case studies. Anyway, it is possible a PP uses benchmarks generated by other PPs.

Benchmarks presentation is important because it allows to explain, with the aid of methodology applications, what sets of data on sea level rise scenarios are suitable, from where data are accessible, what are the other data required to define the impact indicators related to the specific exposed and vulnerable target in the benchmark, what is the sensitivity of the impact from the variations in input data, what are the hardest steps found in methodology implementation and so on and so forth.

After the methodology and benchmark presentation, the stakeholders, associated partners and experts are requested to answer a set of questions. Through those questions, the PP collects the information useful to conduct the methodology validation.

In case the actors have already received information on methodology and benchmarks, it is possible to bypass the meetings and to ask them to fill in the questionnaire only.

Easiness and difficulties in applying the methodology are collected from all the PPs questionnaires and a SWOT analysis [1.1] is conducted with the aim to pick up which of the external and internal factors of the methodology have to be considered good enough and those requiring further improvements.

A quantitative SWOT analysis [1.2], [1.3], is the preferred approach. Each PP can provide its own SWOT analysis and a comprehensive one is going to be conducted including all the PPs contributions. There will be an analysis on results coming from the methodology application to anthropic risks and another to its application to the risks affecting

ecosystems.

To make the harvesting of the information easier and the preparation of the questionnaire, in the next section there is a set of suggested questions and their link to the corresponding area of SWOT analysis. Certainly each PP may enrich the set of questions according to the special points to be explored; of course, they are welcome.

To make the results coming from each PP suitable to feed a general SWOT analysis, the score given to each question will be normalized by the total number and weight of the adopted question. Also in this case a detailed description is presented later.

Questions suggested to address to the audience

Here below, there are questions and the associated area of SWOT analysis. A **value** is given to each question and it ranges from 0 worst and 10 best. Furthermore a **weight** can be given to the question by the questionnaire organizers. The weight ranges from 0 to 1. So the quantitative score given to an answer is the product **value** x **weight**. In case of more than one answer to the same question, that is there is more than one actor answering, then the average of the values shall summarize the result of the questionnaire.

To **mitigate possible imbalances** between the Strengths and Weaknesses, as for Opportunities and Threats, **the weights assigned to each value have to sum to the same total.** This means the sum of the weights used for Strengths equals that of the weights used for Weaknesses, as well as the sum of the weights used for Opportunities and that for Threats. This is very important to get a quantitative SWOT analysis useful for quality assessment.

Questions related to methodology Strengths

Questions on Strengths are meant to collect information on aspects and features **internal** to the methodology that are considered valuable and improve the process of impact assessment, besides to make the job easier to assess. Here are some questions that may be used for the purpose.

1. How clear and understandable do you find the methodology to be?
2. Would you have the methodology be applied in the assessment of risk you consider relevant?
3. Could you apply the methodology with the involvement of human resources available inside your staff?
4. Do you consider it useful to have the results of the impacts expressed as a function of the Global Warming Levels?

5. Do you consider it useful to have the impacts presented with the range of uncertainties?
6. Do you consider the methodology to have a wide range of applications?

Questions related to methodology Weaknesses

Questions on Weaknesses are meant to collect information on aspects and features **internal** to the methodology that are considered limiting or worsening the process of impact assessment and the job to assess heavier. Here are some questions that may be used for the purpose.

1. Does the methodology require specific know-how to be understood?
2. Does the methodology application require too many resources (time, economical or human) in comparison to your availability?
3. Does the methodology application require hiring experts outside your staff?
4. Do you think it is difficult to interpret the uncertainty of an impact due to sea level rise?
5. How difficult is it for you to see the link between the increase of the sea level and the impacts on your asset?

Questions related to methodology Opportunities

Questions on Opportunities are meant to collect information on actual or potential elements **external** to the methodology, for example the environment or the context in which the methodology is used, that may leverage the efficacy and efficiency of methodology in assessing the impact, besides to let the job to assess easier. Here are some questions that may be used for the purpose.

1. Does your sector or asset consider the risk assessment in decision making valuable?
2. Is the methodology a new or innovative tool in the sectors you are working on?
3. Do you think that many other operators of the sector you are working in could be interested in learning about and using the methodology?
4. Is there an adaptation strategy in which the methodology can be helpful?
5. Would you base your strategic plans on the methodology?
6. Would you propose the methodology for the application to other sectors than yours?

Questions related to methodology Threats

Questions on Threats are meant to collect information on actual or potential elements **external** to the methodology, for example the environment or the context in which the methodology is used, that may hinder the efficacy and efficiency of methodology in assessing the impact, besides to let the job to assess heavier. Here are some questions that may be used for the purpose.

1. Are external experts hard to find in order to apply the methodology?
2. Is the cost of the methodology a burden for its application, even for a case of your interest?
3. Do you think the methodology is too complicated for the environment where you are operating and working?
4. Do you think there is a lack of data to assess the impacts of sea level rise in your asset?
5. Is it possible that the results of the methodology are not taken into consideration in defining adaptation planning related to progressive sea level rise?

Method for the general SWOT analysis

To proceed with quantitative SWOT analysis we need to define some quantities we are going to use.

With S, W, O, and T we represent the sum of the values coming from questions belonging to Strengths, Weaknesses, Opportunities, and Threats, respectively. Those are all values greater than or equal to zero.

The total SWOT score (**D**) is the sum of the difference between Strengths and Weaknesses and the difference between Opportunities and Threats

$$D = (S - W) + (O - T)$$

D represents the net balance between positive (Strengths and Opportunities) and negative (Weaknesses and Threats) factors.

The total score magnitude (**M**) is the sum of all the values. Those

$$M = S + W + O + T$$

The relative SWOT analysis score (**R**) is the ratio between the total SWOT score (**D**) and total scores magnitude (**M**), that is:

$$R = D/M$$

For a SWOT analysis completely positive, no Weaknesses at all (W=0) and no Threats at all (T=0), the relative SWOT analysis score is **+1**. While for completely negative analysis, that is no Strengths at all (S=0) and no Opportunities at all (O=0), the relative SWOT analysis score is **-1**. In a general case R ranges from -1 to +1. Values of R > 0 accounts for a general positive analysis result, while values of R < 0 reports a general negative analysis result.

R > 0 Positive SWOT analysis result

R < 0 Negative SWOT analysis result

For R=0, the analysis shows that Strengths balance the Weaknesses and the Opportunities the Threats.

In Annex 1 there is an example of SWOT analysis resulting in a positive result, whereas in Annex 2 an example of negative outcome is reported.

Where to store files with stakeholders feedback results

When each partner will meet the stakeholders and receive the feedback on the methodology application, that information is going to be stored in files. Those files are required to report the work done in achieving the results foreseen in project activities 3.1 and 3.2.

Besides the list of participants, with signatures, the slides used during the meetings and the photos, it is expected there is **a summary of the filled in questionnaires, together with the analysis of the questionnaire outcomes**, that is at least the excel file with the SWOT analysis. Of course, each questionnaire can be added to the set of saved files too.

To make the SWOT analysis easier, there is the template spreadsheet file **SWOT_analysis_example.xlsx** that is available in the same folder where this document is.

It is important to split the feedback result files according to the kind of impact you have used to describe the methodology, that is impacts on anthropic activities and impacts on ecosystems.

For feedback related to **anthropic impacts,** which belong to the project **Activity 3.1**, each PP is requested to store the files in the subfolder of **WP3/Activity_3.1** which is named with the PP ID.

For feedback related to **ecosystem impacts,** which belong to the project **Activity 3.2**, each PP is requested to store the files in the subfolder of **WP3/Activity_3.2** which is named with the PP ID.

Methodology validation

Validation by each Project Partner

MedSeaRise activity 3.1 has produced several meetings with stakeholders and consequently there is one quantitative SWOT analysis for each of the PPs. They are listed here below. For all PPs essential information is presented, whereas in the annexes it is available the spreadsheet with the quantitative SWOT analysis carried on by each partner.

Finally, it is presented a comprehensive SWOT analysis, that was performed using the results of all the feedbacks collected from stakeholders participating to the presentation of the methodology and the benchmarks focusing on sea level impacts related to anthropic activities.

Project Partner	**Annex**
LP1 - ANATOLIKI	Annex 3
PP2 - ARPA FVG	Annex 4
PP3 - CCINCA	Annex 5
PP4 - UoM-IMBK	Annex 6
PP5 - BCC	Annex 7
PP6 - UM	Annex 8
Comprehensive SWOT analysis	Annex 9

It is worth noting that the set of questions proposed to the stakeholders are common to all PPs and they have been translated in the other language used by the stakeholders, to facilitate the understanding of the contents and the objective of the question.

Furthermore, the set of weights given to questions, according to the method described here above, are not shared by all PPs. In fact, some of them decided to adopt the same weight to all questions, while others used the weights to emphasize the relevance of questions in the contest of the stakeholders.

This does not create problems in comparing the results among partners' validations, because the weights are compliant with the fundamental constraint on the sum of the weights in each class of the SWOT elements. Thanks to that, it is also possible to aggregate the quantitative SWOT addends coming from all PPs, with the aim to achieve a comprehensive SWOT analysis, that is an overall MedSeaRise methodology validation.

Details on the questions' weight and the scores of each element contributing to the quantitative SWOT analyses are reported in the Annexes. Further details on each answer given by stakeholders, together with the documentation on the meetings with the stakeholders are stored in compressed archive files (zip files), that area attached to this document.

Indicators of deliverable achievement

Deliverable indicators

The achievement of the objective described in this deliverable is summarized by means of the indicators reported here below. For each of them the expected indicator value and the actual one are presented. In addition, comments are reported too, if any.

Indicator	Expected value	Actual value	Comments
Number of meetings	6	6	One meeting for each PP that was involved in impacts related to anthropic activities
Number of feedbacks	6	7	One SWOT analysis for each of the sets of questionnaires distributed during the meeting, plus a comprehensive analysis using all the available information.

For each meeting, a specific documentation and SWOT analysis is available as an annex.

Conclusions

Conclusions and validation results

The MedSeaRise methodology is a compound of coordinated set of good practices, datasets and examples of its applications, namely the benchmarks, that are meant to support the assessment of risks and the adaptation actions related to sea level rise, due to climate change scenarios, specifically suited for the Mediterranean coastal areas.

Since the methodology is focused on a hazard, which is common to the entire Mediterranean and it is shared among economic, safety and ecosystem preservation stakeholders, it is expected that a large-scale application of the methodology will produce benefits to the whole cooperation area.

Keeping in mind this ambitious goal, it is straightforward the MedSeaRise main result was subjected to the first validation check, before being released as project output. That validation was carried out thanks to the efforts of all the project partners and the many stakeholders and experts, each PP has been involved in the MedSeaRise endeavour.

Not only just a theoretical and abstract presentation of ideas considered suitable for possible application was proposed to the evaluators. Instead, the MedSeaRise methodology was presented and described with examples of its applications, including the problems and the key solutions that each Project Partner has found to put it in practice on real case studies.

Furthermore, the evaluation was characterized by a quantitative approach, applying the well-established method of the quantitative SWOT analysis.

Looking at the specific results achieved by each PP, all the SWOT analyses produced a positive evaluation of the MedSeaRise methodology, but one; see Annex 7. In this last negative outcome, surely the sigh of the quantitative parameter R is not positive, anyway the value assumed by the index is almost zero, revealing balance between methodology strengths and weaknesses as for as the balance between opportunities and threats.

In general, all PPs have found that methodology strength and opportunities (overall average for both is about 8) are stronger than the weaknesses and the threats (these latter having an average of about 7).

Since there are no significant differences between the average scores recorded for strengths and opportunities, we can conclude that both internal and external positive aspects of the methodology application creates a balanced synergy that potentially will boost its large-scale usage and benefits.

Also the weaknesses and the threats got average scores that are comparable. So, possible limits in the methodology capitalization and amplification, through its application to a wide spectrum of cases, could not be blamed on the improvable internal methodology features only. In fact, also the environment in which the methodology is proposed has to be considered a not negligible limiting player.

If we consider the overall R score received by the methodology, see Annex 9, we notice

that the quantification of the methodology goodness is clearly positive. For several PPs, the R index reaches values greater than 0.1, with a maximum of 0.2246. The overall R score (0.1182) denotes a prevalence of the Strengths and the Opportunities with respect to the internal methodology Weaknesses and the external possible Threats.

Examining in detail the internal factors that contribute to the methodology quality evaluation, specifically the differences between Strengths and Weaknesses (see Annex 9), it is clear that for almost all the applications the stakeholders and experts judgment highlights a prevailing of the Strengths with respect the Weaknesses. Just in one case these two aspects compensate each other resulting in a slight exceedance of the negative aspects. The same is true for the external factors, because the Opportunities are more than the Threats in all the analyses, but one.

This latter evidence is stimulating the large-scale application of the methodology, because the cultural and technical environment is prone to valorise its implementation and the coming results in almost all the Mediterranean areas where the PPs have conducted the first applications of the MedSeaRise main output.

Annexes

Annex 1 – Example of positive quantitative SWOT Analysis

Example of positive quantitative SWOT analysis

Type	Question	Value	Weight	Score
S	Alpha	10	0.50	**5.00**
S	Beta	10	0.50	**5.00**
S	Gamma	2	0.30	**0.60**
W	Omega	2	0.65	**1.30**
W	Zetta	5	0.70	**3.50**
O	Sound	10	1.00	**10.00**
O	Melody	5	0.50	**2.50**
T	Noise	5	1.00	**5.00**
T	Cry	3	0.75	**2.25**
T	pain	5	0.90	**4.50**

S	W	S-W
10.6	4.8	5.8
O	**T**	**O-T**
12.5	11.75	0.75

D	6.55
M	39.65
R	0.165195

Annex 2 – Example of negative quantitative SWOT Analysis

Example of negative quantitative SWOT analysis

Type	Question	Value	Weight	Score
S	Alpha	10	0.50	**5.00**
S	Beta	10	0.50	**5.00**
S	Gamma	2	0.30	**0.60**
W	Omega	2	0.65	**1.30**
W	Jotta	7	0.85	**5.95**
W	Zetta	5	0.70	**3.50**
O	Sound	10	1.00	**10.00**
O	Opera	7	0.10	**0.70**
O	Melody	5	0.50	**2.50**
T	Noise	5	1.00	**5.00**
T	Cry	3	0.75	**2.25**
T	Shy	10	0.50	**5.00**
T	pain	5	0.90	**4.50**

S	W	S-W
10.6	10.75	-0.15
O	**T**	**O-T**
13.2	16.75	-3.55

D	-3.7
M	51.3
R	-0.07212

Annex 3 – LP1 - ANATOLIKI - SWOT Analysis

The SWOT analysis conducted by LP1 ANATOLIKI S.A.

Type	Question	Value (1–10)	Weight	Score
S	How clear and understandable do you find the r	8	0.17	**1.33**
S	Would you apply this methodology to assess ris	8.43	0.17	**1.41**
S	Could your organisation apply the methodology	5.14	0.17	**0.86**
S	Do you find it useful to express the impacts as a	7.86	0.17	**1.31**
S	Do you find it useful to present the impacts toge	8.42	0.17	**1.40**
S	Do you consider that this methodology can be a	8.28	0.17	**1.38**
W	Does the methodology require specialised techn	8	0.20	**1.60**
W	Does applying the methodology require too ma	7	0.20	**1.40**
W	Does applying the methodology require hiring e	7.57	0.20	**1.51**
W	Is it difficult for you to interpret the uncertainty	5.71	0.20	**1.14**
W	Is it difficult for you to see and understand the l	4.71	0.20	**0.94**
O	In your sector, is risk assessment an important e	7.86	0.17	**1.31**
O	Is this methodology new or innovative compare	7.71	0.17	**1.29**
O	Do you think that many other operators in your	6.86	0.17	**1.14**
O	Is there an existing or planned adaptation strate	7.14	0.17	**1.19**
O	Would you be willing to base or support your st	7.28	0.17	**1.21**
O	Would you recommend this methodology for ap	8.33	0.17	**1.39**
T	Are external experts with the required skills diff	5.57	0.20	**1.11**
T	Is the cost of applying the methodology a burde	5	0.20	**1.00**
T	Is the methodology too complex for the working	6	0.20	**1.20**
T	Is there a lack of suitable data to assess sea leve	7	0.20	**1.40**
T	Is there a risk that the results of this methodolo	4.29	0.20	**0.86**

S	W	S-W
7.69	6.60	1.09
O	**T**	**O-T**
7.53	5.57	1.96

D	3.05
M	27.39
R	**0.1114**

Archive file storing all the information collected by LP1 in the frame of methodology validation.

File: **Act_3.1_MedSeaRise_methodology_validation_LP1.zip**

Annex 4 – PP2 - ARPA FVG - SWOT Analysis

The SWOT analysis conducted by PP2 ARPA FVG.

Type	Question	Value	Weight	Score
S	How clear and understandable do you find the methodology to be?	8.5	0.25	**2.13**
S	Would you apply this methodology to assess risks that are relevant to	8.14	0.25	**2.04**
S	Could your organisation apply the methodology using only internal sta	7.43	0.10	**0.74**
S	Do you find it useful to express the impacts as a function of Global Wa	8.68	0.15	**1.30**
S	Do you find it useful to present the impacts together with their range	9.43	0.15	**1.41**
S	Do you consider that this methodology can be applied to a wide range	9.14	0.10	**0.91**
W	Does the methodology require specialised technical know-how to be u	7.43	0.25	**1.86**
W	Does applying the methodology require too many resources (time, bu	6.93	0.30	**2.08**
W	Does applying the methodology require hiring external experts that a	6.61	0.10	**0.66**
W	Is it difficult for you to interpret the uncertainty of the impacts obtain	6.61	0.15	**0.99**
W	Is it difficult for you to see and understand the link between sea level	3.25	0.20	**0.65**
O	In your sector, is risk assessment an important element in decision-ma	8.57	0.25	**2.14**
O	Is this methodology new or innovative compared to the tools normally	6.78	0.10	**0.68**
O	Do you think that many other operators in your sector could be intere	7.89	0.15	**1.18**
O	Is there an existing or planned adaptation strategy (e.g. for climate or	7.93	0.15	**1.19**
O	Would you be willing to base or support your strategic planning using	7.96	0.20	**1.59**
O	Would you recommend this methodology for application in sectors ot	8.68	0.15	**1.30**
T	Are external experts with the required skills difficult to find for applyir	5.19	0.20	**1.04**
T	Is the cost of applying the methodology a burden for your organisatio	5.33	0.25	**1.33**
T	Is the methodology too complex for the working environment or orga	4.29	0.25	**1.07**
T	Is there a lack of suitable data to assess sea level rise impacts on the a	5.31	0.15	**0.80**
T	Is there a risk that the results of this methodology would not be taken	5.07	0.15	**0.76**

S	W	S-W
8.53	6.24	2.29
O	**T**	**O-T**
8.09	5.00	3.09

D	5.38
M	27.86
R	**0.1932**

Archive file storing all the information collected by PP2 in the frame of methodology validation.

File: **Act_3.1_MedSeaRise_methodology_validation_PP2.zip**

Annex 5 – PP3 - CCINCA – SWOT Analysis

The SWOT analysis conducted by PP3 CCINCA.

Type	Question	Value (1–10)	Weight	Score
S	How clear and understandable do you find the methodology to	7.33	0.17	**1.22**
S	Would you apply this methodology to assess risks that are relev	7.83	0.17	**1.31**
S	Could your organisation apply the methodology using only inter	5.8	0.17	**0.97**
S	Do you find it useful to express the impacts as a function of Glob	6	0.17	**1.00**
S	Do you find it useful to present the impacts together with their	9	0.17	**1.50**
S	Do you consider that this methodology can be applied to a wide	6.5	0.17	**1.08**
W	Does the methodology require specialised technical know-how	8.33	0.20	**1.67**
W	Does applying the methodology require too many resources (tin	5	0.20	**1.00**
W	Does applying the methodology require hiring external experts	5.2	0.20	**1.04**
W	Is it difficult for you to interpret the uncertainty of the impacts c	7.5	0.20	**1.50**
W	Is it difficult for you to see and understand the link between sea	4	0.20	**0.80**
O	In your sector, is risk assessment an important element in decisi	9.2	0.17	**1.53**
O	Is this methodology new or innovative compared to the tools no	3.33	0.17	**0.56**
O	Do you think that many other operators in your sector could be	6.4	0.17	**1.07**
O	Is there an existing or planned adaptation strategy (e.g. for clim	8.5	0.17	**1.42**
O	Would you be willing to base or support your strategic planning	4.25	0.17	**0.71**
O	Would you recommend this methodology for application in sect	5.8	0.17	**0.97**
T	Are external experts with the required skills difficult to find for a	5	0.20	**1.00**
T	Is the cost of applying the methodology a burden for your organ	7.4	0.20	**1.48**
T	Is the methodology too complex for the working environment o	2.8	0.20	**0.56**
T	Is there a lack of suitable data to assess sea level rise impacts or	6.25	0.20	**1.25**
T	Is there a risk that the results of this methodology would not be	7	0.20	**1.40**

S	W	S-W
7.08	6.01	1.07
O	**T**	**O-T**
6.25	5.69	0.56

D	1.63
M	25.02
R	**0.0651**

Archive file storing all the information collected by PP3 in the frame of methodology validation.

File: **Act_3.1_MedSeaRise_methodology_validation_PP3.zip**

Annex 6 – PP4 - UoM-IMBK - SWOT Analysis

The SWOT analysis conducted by PP4 UoM-IMBK

Type	Question	Value	Weight	Score
S	How clear and understandable do you find the methodology to	9.75	0.30	**2.93**
S	Would you apply this methodology to assess risks that are relev	9.25	0.15	**1.39**
S	Could your organisation apply the methodology using only inter	7.75	0.20	**1.55**
S	Do you find it useful to express the impacts as a function of Glo	10	0.15	**1.50**
S	Do you find it useful to present the impacts together with their	9.5	0.10	**0.95**
S	Do you consider that this methodology can be applied to a wide	9	0.10	**0.90**
W	Does the methodology require specialised technical know-how	5	0.2	**1.00**
W	Does applying the methodology require too many resources (tir	6.5	0.2	**1.30**
W	Does applying the methodology require hiring external experts	9.5	0.15	**1.43**
W	Is it difficult for you to interpret the uncertainty of the impacts	7.25	0.30	**2.18**
W	Is it difficult for you to see and understand the link between sea	5.5	0.15	**0.83**
O	In your sector, is risk assessment an important element in decisi	8.5	0.30	**2.55**
O	Is this methodology new or innovative compared to the tools no	8.75	0.15	**1.31**
O	Do you think that many other operators in your sector could be	7.25	0.20	**1.45**
O	Is there an existing or planned adaptation strategy (e.g. for clim	9.5	0.15	**1.43**
O	Would you be willing to base or support your strategic planning	8.5	0.10	**0.85**
O	Would you recommend this methodology for application in sect	7.75	0.10	**0.78**
T	Are external experts with the required skills difficult to find for a	5.5	0.20	**1.10**
T	Is the cost of applying the methodology a burden for your organ	5	0.20	**1.00**
T	Is the methodology too complex for the working environment o	5.75	0.15	**0.86**
T	Is there a lack of suitable data to assess sea level rise impacts or	9.5	0.30	**2.85**
T	Is there a risk that the results of this methodology would not be	4.75	0.15	**0.71**

S	W	S-W
9.21	6.73	2.49
O	**T**	**O-T**
8.36	6.53	1.84

D	4.33
M	30.83
R	**0.1403**

Archive file storing all the information collected by PP4 in the frame of methodology validation.

File: **Act_3.1_MedSeaRise_methodology_validation_PP4.zip**

Annex 7 – PP5 - BCC - SWOT Analysis

The SWOT analysis conducted by PP5 BCC.

Type	Question	Value	Weight	Score
S	How clear and understandable do you find the methodology to	7.11	0.17	**1.19**
S	Would you apply this methodology to assess risks that are rele	8.00	0.17	**1.33**
S	Could your organisation apply the methodology using only inte	7.67	0.17	**1.28**
S	Do you find it useful to express the impacts as a function of Gl	7.89	0.17	**1.32**
S	Do you find it useful to present the impacts together with thei	8.67	0.17	**1.44**
S	Do you consider that this methodology can be applied to a wid	8.44	0.17	**1.41**
W	Does the methodology require specialised technical know-how	8.00	0.20	**1.60**
W	Does applying the methodology require too many resources (t	7.89	0.20	**1.58**
W	Does applying the methodology require hiring external experts	8.67	0.20	**1.73**
W	Is it difficult for you to interpret the uncertainty of the impacts	8.44	0.20	**1.69**
W	Is it difficult for you to see and understand the link between se	8.00	0.20	**1.60**
O	In your sector, is risk assessment an important element in deci	7.89	0.17	**1.32**
O	Is this methodology new or innovative compared to the tools r	8.67	0.17	**1.44**
O	Do you think that many other operators in your sector could b	8.44	0.17	**1.41**
O	Is there an existing or planned adaptation strategy (e.g. for clir	8.00	0.17	**1.33**
O	Would you be willing to base or support your strategic plannin	7.89	0.17	**1.32**
O	Would you recommend this methodology for application in sec	8.67	0.17	**1.44**
T	Are external experts with the required skills difficult to find for	8.44	0.20	**1.69**
T	Is the cost of applying the methodology a burden for your orga	8.00	0.20	**1.60**
T	Is the methodology too complex for the working environment	7.89	0.20	**1.58**
T	Is there a lack of suitable data to assess sea level rise impacts c	8.67	0.20	**1.73**
T	Is there a risk that the results of this methodology would not b	7.89	0.20	**1.58**

S	W	S-W
7.96	8.20	-0.24
O	**T**	**O-T**
8.26	8.18	0.08

D	-0.15
M	32.60
R	**-0.0047**

Archive file storing all the information collected by PP5 in the frame of methodology validation.

File: **Act_3.1_MedSeaRise_methodology_validation_PP5.zip**

Annex 8 – PP6 - UM - SWOT Analysis

The SWOT analysis conducted by PP6 UM.

Type	Question	Value (0-10)	Weight	Score
S	How clear and understandable do you find the methodology to be?	8.29	0.17	**1.38**
S	Would you apply this methodology to assess risks that are relevant to y	8.14	0.17	**1.36**
S	Could your organisation apply the methodology using only internal staf	5.86	0.17	**0.98**
S	Do you find it useful to express the impacts as a function of Global War	7.86	0.17	**1.31**
S	Do you find it useful to present the impacts together with their range o	8.43	0.17	**1.41**
S	Do you consider that this methodology can be applied to a wide range	8.29	0.17	**1.38**
W	Does the methodology require specialised technical know-how to be ur	5.71	0.20	**1.14**
W	Does applying the methodology require too many resources (time, bud	4.86	0.20	**0.97**
W	Does applying the methodology require hiring external experts that are	5.29	0.20	**1.06**
W	Is it difficult for you to interpret the uncertainty of the impacts obtaine	4.14	0.20	**0.83**
W	Is it difficult for you to see and understand the link between sea level ri	2.57	0.20	**0.51**
O	In your sector, is risk assessment an important element in decision-mak	8.86	0.17	**1.48**
O	Is this methodology new or innovative compared to the tools normally	7.57	0.17	**1.26**
O	Do you think that many other operators in your sector could be interest	8.57	0.17	**1.43**
O	Is there an existing or planned adaptation strategy (e.g. for climate or c	7	0.17	**1.17**
O	Would you be willing to base or support your strategic planning using th	8	0.17	**1.33**
O	Would you recommend this methodology for application in sectors othe	8.14	0.17	**1.36**
T	Are external experts with the required skills difficult to find for applying	5.71	0.20	**1.14**
T	Is the cost of applying the methodology a burden for your organisation	5.43	0.20	**1.09**
T	Is the methodology too complex for the working environment or organi	4.29	0.20	**0.86**
T	Is there a lack of suitable data to assess sea level rise impacts on the as	6.71	0.20	**1.34**
T	Is there a risk that the results of this methodology would not be taken i	5.43	0.20	**1.09**

S	W	S-W
7.81	4.51	3.30
O	**T**	**O-T**
8.02	5.51	2.51

D	5.81
M	25.87
R	**0.2246**

Archive file storing all the information collected by PP6 in the frame of methodology validation.

File: **Act_3.1_MedSeaRise_methodology_validation_PP6.zip**

Annex 9 – Comprehensive - SWOT Analysis

The SWOT analysis was conducted using all the feedback coming from stakeholders.

PP	S	W	O	T	S-W	O-T
LP1	7.69	6.60	7.53	5.57	1.09	1.96
PP2	8.53	6.24	8.09	5.00	2.29	3.09
PP3	7.08	6.01	6.25	5.69	1.07	0.56
PP4	9.21	6.73	8.36	6.53	2.49	1.84
PP5	7.96	8.20	8.26	8.18	-0.24	0.08
PP6	7.81	4.51	8.02	5.51	3.30	2.51
All_PPs	**48.29**	**38.28**	**46.52**	**36.48**	**10.01**	**10.04**
averages	8.05	6.38	7.75	6.08	1.67	1.67

D	20.05
M	169.57
R	**0.1182**

Archive file storing comprehensive SWOT analysis.

File: **Act_3.1_MedSeaRise_methodology_validation_all.zip**

References

Bibliography and Sitography

[1.1] Structured decision making: A practical guide to environmental management choices. Gregory, R., Failing, L., Harstone, M., Long, G., McDaniels, T., Ohlson, D. (2012), Chichester, West Sussex, UK: Wiley-Blackwell.

[1.2] Improving reintroduction planning and implementation through quantitative SWOT analysis, Thomas H. White, Yara de Melo Barros, Pedro F. Develey, Iván C. Llerandi-Román, Omar A. Monsegur-Rivera, Ana M. Trujillo-Pinto, (2015), Journal for Nature Conservation, Volume 28, Pages 149-159, https://doi.org/10.1016/j.jnc.2015.10.002.

[1.3] Quantitative SWOT analysis: A structured and collaborative approach to reintroduction site selection for the endangered Pacific pocket mouse, Rachel Y. Chock, William B. Miller, Shauna N.D. King, Cheryl S. Brehme, Robert N. Fisher, Hans Sin, Peggy Wilcox, Jill Terp, Scott Tremor, Matthew R. Major, Korie Merrill, Wayne D. Spencer, Sherri Sullivan, Debra M. Shier, (2022), Journal for Nature Conservation, Volume 70, 126268, https://doi.org/10.1016/j.jnc.2022.126268.

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