

CO-EVOLVE

Promoting the co-evolution of human activities and natural systems for the development of sustainable coastal and maritime tourism

Deliverable 4.2.2 (b)

Report on the second training course

WP4 PAP/RAC









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1. TRAINING COURSE REPORT

Context of the training course

Co-Evolve is a project that brings together partners determined to develop sustainable tourism plans for identified pilot areas. While the actions for each of the pilot sites are very different from one another, the partners have a common goal: to advance towards a sustainable tourism in accordance with the ICZM Protocol and MSP principles and through a participatory approach. This goal has to be pursued using a common approach in order to better plan and manage tourism offer in the Mediterranean basin, enabling maximizing of the possibilities of each destination while respecting its carrying capacities. This approach will also be used in the Southern Mediterranean countries when transferring the results in the framework of the work package (WP) 5. The objective of the training courses is to acquaint the project partners, in particular those implementing pilot actions at the local level, with the ICZM process, strategic planning process, sustainability indicators, participatory approaches, as well as with tools and techniques used to facilitate the implementation of ICZM on the ground, with the aim of reaching a common understanding and a harmonized approach when preparing sustainable tourism plans for pilot areas. This will enable local tourism actors and stakeholders to get a common basis for a successful planning, leading to integrated decisions in sustainable tourism, helping them to make more informed and integrated decisions for the governance and management of tourism in the Mediterranean.

This second training course was organized by PAP/RAC, based on the conclusions of the first training course during which the participants had the opportunity to express their wishes in terms of themes to address during the next training course. These themes were grouped into four clusters: sharing best practises, participatory techniques, practical use of sustainability indicators, and mobilizing funding for the implementation of the plans. In accordance with the wishes of the partners, the presentations were pragmatic and presented concrete examples of implementation on the ground.

2. The one-day training course for Co-Evolve partners on planning for improving the coastal and marine sustainability of tourist areas was organized in Barcelona, Spain (in the premises of the Union for the Mediterranean) on 30 October 2018. It was attended by 51 participants, as follows:





- From the Co-Evolve project (29 participants): 18 of them were representatives of all the pilot area partners (REMTH, Emilia Romagna Region, Delta PO park Veneto, Valencia Port, Department of Herault, RERA and Dunea), and 11 of them were representatives of partner institutions (ISMAR, IUAV, UTH, CPMR, PAP/RAC).
- Besides the Co-Evolve projects partners, the meeting was attended by 22 participants who were MedCoast4BG partners. MedCoast4BG is a Union for the Mediterranean (UfM) labelled project (since December 2017) that intends to extend CO-Evolve's conceptual and methodological model to the Southern & Eastern Mediterranean countries. It involves, considering common natural physical and geographic characteristics (at the Mediterranean level) but which may differ at local level. The project involves the whole partnership of Co-Evolve and several other key players from the Mediterranean partner countries. MedCoast4BG participants included representatives from various ministries and other administrative bodies, from the academic community and NGOs.

The full list of participants is attached as Annex 1 to this report.

Opening of the training course

3. The training course was opened on 30 October at 9:00 a.m. by Mr. Marko Prem, Deputy Director of PAP/RAC, who welcomed all the participants. He presented the agenda of the meeting which was adopted as attached in Annex 2 to this report. Mr. Roberto Montanari (Emilia-Romagna Region) then took the floor in his capacity of work package 4 coordinator. He greeted the participants, and expressed his satisfaction with having the MedCoast4BG participants joining the Co-Evolve training course.

Session 1: Presentation of the elaboration of the Šibenik-Knin coastal plan

4. Ms Daria Povh Škugor (PAP/RAC Senior Programme Officer) started the training course by presenting the on-the-ground experience of elaboration of an ICZM plan: the experience of the Coastal Plan for the Šibenik-Knin County. She first explained that a coastal plan or an ICZM Plan is a guide towards building resilience to climate change and towards sustainable development. It is an indicative plan, based on the Article 18 of the ICZM Protocol. She presented the plan by defining the key ingredients for success of such a project, which are actually lying in creating a favourable environment for the implementation of the plan. Among these she listed the following: embedding the plan into the governance system, creating ownership, defining clear, precise goals and secure their wide adoption; securing quality and





securing human and financial resources. Following that she presented how these key ingredients were tackled during the process of the Plan preparation.

She briefly introduced the key features of the Šibenik-Knin county, emphasizing the length of its coast and low density of its coastal population. The Plan objectives were presented as follows:

- to define a management system for coastal areas which can ensure the building of resilience and direct development towards sustainability;
- to identify particularly endangered areas with regard to coastal processes, especially areas vulnerable to the impacts of climate variability and change;
- to propose measures for adaptation to the impacts of climate variability and change;
 and
- to provide assistance in the formulation and integration of sectoral policies and plans.

She pointed out that the project team was quite satisfied with how those objectives were met. The coastal plan focused on several themes: space as the key resource of the coastal zone, water as the crucial source of life, and climate change as a transversal issue influencing all segments of life in this area. Particular attention was dedicated to forest fires, since this issue was recognized as the most immediate threat from climate variability and change. She presented the tools used, among which GIS and Climagine were the most important and illustrated the main findings for the listed topics.

She presented the policies and measures proposed by the plan and the Action Plan that followed. Coastal management policies were designed for sustainable spatial development, for water resources management, for building of coastal resilience and for sustainable economic development. General measures were proposed for the whole of the territory and specific measures were designed for each of the coastal settlements. The first management measure proposed was related to governance. Within the Action Plan measures were prioritized and for each measure it was specified who is responsible, including: partners; time span; implementation activities; needed financing; possible sources; and the indicators of achievement. The second part of the Action Plan identified priority projects that are to be developed individually.

Ms Povh Škugor concluded her presentation by going back to the key ingredients of success, pointing out the importance of the territorial approach, where heritage, identity and culture





are the key development drivers. She illustrated the Coastal Plan as a platform for prioritisation of the key issues and challenges in a strategic, integrated and long-term manner, free from the department responsibility limitations. She mentioned the importance of the new coordination mechanism for ICZM and its key role for future, and concluded by mentioning several new initiatives born during the implementation stage.

The full presentation is attached in Annex 3 to this report.

5. In the discussion that followed Ms Povh Škugor described in more detail the legal background of the Coastal Plan as well as the governance structure - the County Committee for Integrated Coastal and Marine Management. She presented its work, some themes that were tackled by this Committee, its way of functioning, as well as some plans for the future.

Session 2: Climagine methodology

- 6. Ms Veronique Evers (PAP/RAC consultant) introduced the Climagine methodology to the participants. This participatory method was used in the framework of the elaboration of the Šibenik-Knin coastal plan. She started by explaining that participation was a requirement stemming from the ICZM Protocol, and briefly presented the major added value from a participatory process in the framework of any ICZM initiative. She then spoke on how the Climagine methodology had been developed, and how it became one of the first participative methodologies fine-tuned to include the transversal issue of climate change. After listing the objectives of Climagine, she emphasized that participation was not a self-standing goal but a tool which was used in order to have a more efficient planning. All the outputs of Climagine are actually meant to feed into the ICZM plan/program. On the other hand, the inputs from the plan (for example socio-economic data, data on climate change and so on) give to the participants a knowledge base to make informed choices for the future of their coast. She then explained in more details the 3 steps of the Climagine methodology.
- In the step 1: "Reflect and understand the present situation, taking into account the context of climate change", Ms Evers explained how to use the tool of the rich pictures, a pictorial presentation of environmental, social or economic systems using drawings, diagrams, or symbols. She pointed out the fact that when climate change had to be taken into account in the framework of planning, there was a need to provide a minimum knowledge through the ICZM team of experts. Getting more information about the impacts of climate change on their territory may helps stakeholders to set priorities for their area in a different order than they would do otherwise.





- In the step 2: "Identify indicators and the band of equilibrium", Ms Evers spoke about the necessity to be particularly attentive to data availability and reliability in the context of climate change. Indeed, many of the potential indicators related to climate change impacts could be hard or impossible to measure. Once again the presence of the ICZM expert team can be of great help.
- Finally, the step 3: "Draw amoeba diagrams and build scenarios" is also gaining in complexity when including climate change issue because socio-economic, demographic, social and environmental evolution has to be combined with climate change scenarios. An advice in that situation is to focus on one scenario from IPCC.

She concluded her presentation by explaining that Climagine significantly enriched the knowledge of the participants, helped to break the ice amongst them and enabled them to take full ownership of the plan.

The presentation is attached in Annex 3 to this report.

7. The presentation was followed by a lively discussion during which the participants asked concrete questions about the choice of the indicators, the obstacles to participation, PAP/RAC experience with Climagine in the Southern Mediterranean countries, the profile of the stakeholders and the inputs of Climagine to the preparation of the action plan in the framework of the coastal plan.

Session 3: Practical use of indicators in the pilot project areas

8. The third presentation was made by Ms Tonia Koutsopoulou (UTH), who first introduced the customized toolkits produced for the 11 pilot sites in the framework of the Co-Evolve, based on the defined core indicators, destination indicators and pilot-area specific indicators. She then explained that sometimes it happened that an indicator important for the project could not be measured because of a lack of data. In that case, it is possible to measure tourism sustainability based on stakeholders' perceptions. The first step to do so is the qualitative assessment. Through interviews and individual questionnaires, the stakeholders are asked about their opinion on a specific subject (for ex. Do you think that coastal erosion in the project area is a major problem?). The second step consists of processing the results, and synthesising them in a toolkit. Finally, in the third step, the results are presented in the form of a diagram which shows the sustainability threshold as well as the current sustainability ratio of the indicator. Ms Koutsopoulou then presented the results of the test on





stakeholder's perception which had been performed in the Komotini region. She finished her presentation by presenting the lessons learned from this experience:

- The qualitative questions have to be simple, and one should remember the aim, which is to get an assessment and not an actual number;
- The stakeholders who are questioned have to be carefully chosen in order to get an expert knowledge on the pilot areas;
- Interviews will be preferred to questionnaires as the results are clearer.

As a conclusion, she pointed out that this technique helped overcome data gaps, prioritize the actions as well as evaluate the contribution of the various stakeholders.

The full presentation is attached in Annex 3 to this report.

9. Following the presentation, the question of how to define the sustainable value for an indicator was raised. It was explained that, as this evaluation was measuring stakeholders' perception, one did not try to find the exact value but rather to get a general idea on how a stakeholder saw the situation. The participants agreed on the interest to have such an evaluation at the beginning of a project in order to define the priority issues to be dealt with.

Session 4: Designing and managing participatory processes, e-learning course

- 10. Ms Sabrina Franceshini (RER) introduced the 4th presentation of the training course: "Designing and managing participatory processes, e-learning course". She explained that the Emilia Romagna Region and the public bodies of the region had put in place an e-learning system named SELF. This e-learning course has a component on participation experiences named "Designing and managing participatory processes" which is meant to support project managers with no direct experience in participatory processes in establishing one. The course is fully self learning, with no external evaluation. It is organized in 3 steps:
- Participation: when and why is it useful or needed to have a participatory process?
- Participation tools and techniques
- Participatory process design

The Co-Evolve partners are expected to do the course, and to provide feedback in order to improve it. Following the presentation, the participants were invited to test one of the elearning lessons in order to get familiar with the use of this tool. Mr Christian Marasmi (RER) helped the participants to navigate through the web site, and provided useful tips to take advantages from it.

The full presentation is attached in Annex 3 to this report.





11. Following the presentation, some clarifications were made regarding the need to have a participatory process when planning the development of an area. It was emphasized that in some cases, such as spatial planning, the participatory process was mandatory in the European Union countries. It was also explained that the e-learning system was meant to be a contribution by the Emilia Romagna Region to the Co-Evolve project, and that it would stay available for all the partners during the whole time span of the project and beyond. The contents of the platform on the participatory process have been translated in English in order to be suitable for all the partners.

Session 5: Financial opportunities and economic instruments for pilot project implementation

12. The presentation on "Financial opportunities and economic instruments for pilot project implementation" was held by Mr. Anil Markandya (PAP/RAC consultant, BC3 Basque Centre for Climate Change). He started by presenting the two main measures for ensuring the sustainable use of the coastal zones: the transferable development rights and the taxation of increased land values. He then spoke about the role of economic instruments for sustainable tourism in general, explaining that their main objective was to internalize the externalities, and gave some examples of economic instruments earmarked for specific purposes in the Mediterranean. He emphasized that there were 4 rules to ensure financial sustainability of coastal tourist areas: the polluter-pays principle; the beneficiary-pays principle, the budget support and the voluntary contributions. For each of these elements, an analysis of their legal framework, the collection cost, the equity, the political acceptability and the economic costs was performed. The example of MedLand, a fictive place in the Mediterranean, was then presented as an illustration. This example could be adapted and applied at the scale of Co-Evolve pilot areas. Mr. Markandya concluded his presentation by informing the participants that it was not difficult to find financial opportunities for sustainable tourism development. He emphasized that private and public sectors needed to work together to ensure the development is sustainable and balances environmental, social and economic objectives. It is also important to remember that financial sustainability involves balancing different financing principles.

The full presentation is attached in Annex 3 to this report.





13. A very lively discussion followed the presentation, where the question of who is responsible for the implementation of the economic instruments was raised. It was explained that it could be the authority which issues the permission for the development of the area. Another important point raised was whether a participatory approach should be used in order to determine whether to use economic instruments or not. It was answered that if there was already a participatory process in place in the framework of the planning of the development of an area, it would be a mistake not to consult stakeholders on this matter. The question on knowing how to define the area concerned by the transferable development rights was raised. It was answered that typically, the limits would be those of the existing administrative borders. A participant also asked what the main obstacles to the introduction of economic instruments were. Mr. Markandya explained that the key factor for success was the political will. Another question which arose was how to transfer the concept of transferable development rights to the Southern Mediterranean countries. It was suggested to do so by building on good experiences from the Northern Mediterranean countries, like for example the Sardinian experience.

Finally, it was noted that tourism operators may be reluctant to have such economic instruments, as they may have an impact on the prices of tourism activity. Nevertheless, it was emphasized that the benefits of those instruments were meant to improve the quality of the environment, and that as such it had a long-term positive economic impact on the destination by improving its attractivity. It is crucial to educate tourism actors on this matter in order for them to agree with their use.

Session 6: Cost-Benefit analysis

14. The last presentation of the day was held by Mr. Markandya, and dealt with the cost-benefit analysis in the context of development of sustainable coastal and maritime tourism in the Mediterranean. The cost-benefit analysis finds its justification in the fact that public investments and policies need to be evaluated in order to decide if they offer good value for the money spent. Indeed, a project or programme involves a number of financial expenditures and offers some financial returns as a result. For this reason, all governments undertake some kind of evaluation of the options proposed before deciding on which one to adopt. The cost-benefit analysis is a method which takes into account 2 different analyses: the financial one and the social one. The financial analysis looks at all expenditures at different points in time and all the returns. These expenditures and returns may be incurred by the government or the private sector, but both are taken into account. Nevertheless, Mr.





Markandya insisted on the fact this analysis took only the financial aspect into account, while policy makers had to consider more criteria such as social and economic ones. For this reason, it is necessary to perform, in parallel, a social assessment of the project, which will help determine whether the project is socially viable. Indeed, some impacts of a project do not generate financial flows but can represent costs or benefits to society. *Vice versa*, some impacts have financial flows but the size of the flow does not represent the true social cost. Mr. Markandya then explained the way to perform the cost-benefit analysis based on the formulas he presented. He then spoke about the reasons why financial and economic analyses of tourism might differ, and concluded his presentation by speaking about the limits of the cost-benefit analysis, and explained how they could be overcome.

The full presentation is attached in Annex 3 to this report.

15. In the discussion that followed details were asked on how to estimate the value of the environmental loss. It was also explained that a project could be evaluated positive even though being financially non profitable, because it was expected to have socially positive impacts.

Closure of the meeting

16. After thanking all the presenters for their contributions Mr. Prem thanked the participants for being actively involved during the course by asking questions and making this training course so lively through the discussions. He thanked the host (UfM) for providing excellent venue and the partners that were closely involved in organizing this training course, namely the WP4 lead partner and the CPMR. Mr. Prem declared the training course at closed 4:30 p.m.





ANNEX 1: LIST OF PARTICIPANTS

Partners of Co-Evolve

	Partner	Name
PP1	Region of East Macedonia and Thrace	Karampourniotis
		Konstantinos
PP1	Region of East Macedonia and Thrace	Kokkinos Dimitris
PP1	Region of East Macedonia and Thrace	Hamitidou Maria
PP1	Region of East Macedonia and Thrace	Malisianou Erato
PP2	CPMR Intermediterranean Commission	Leroy Flora
PP2	CPMR Intermediterranean Commission	Maniscalo Emmanuel
PP2	CPMR Intermediterranean Commission	Strangis Davide
PP3	University of Thessaly	Koutsopoulou Tonia
PP4	Emilia-Romagna Region	Franceschini Sabrina
PP4	Emilia-Romagna Region	Marasmi Christian
PP4	Emilia-Romagna Region	Montanari Roberto
PP4	Priority Actions Programme Regional Activity Center	Evers Veronique
PP4	Priority Actions Programme Regional Activity Center	Markandya Anil
PP4	Priority Actions Programme Regional Activity Center	Povh Daria
PP4	Priority Actions Programme Regional Activity Center	Prem Marko
PP5	Fundacion Valenciaport	Muñoz Andrea
PP6	Instituto Delta	De Faveri Roberta
PP6	Instituto Delta	Rosa Federico
PP6	Instituto Delta	Vitelletti Maria Letizia
PP7	Dubrovnik Neretva Regional Development Agency	Prce Ivana
PP7	Dubrovnik Neretva Regional Development Agency	Trkovic Olja
PP7	Institute for Spatial Planning of the Dubrovnik Neretva	Savin Barbara
	County	
PP7	Institute for Spatial Planning of the Dubrovnik Neretva	Ivan Lukačević-Verenac
	County	
PP8	Department of Hérault	Reboul Guilhem
PP9	Public institution RERA SD for coordination and	Novak Mili
	development of the Split Dalmatia County	
PP9	Public institution RERA SD for coordination and	Radić Srećko





	development of the Split Dalmatia County	
PP10	University of Venice	Magni Filippo
PP10	University of Venice	Vittore Negretto
PP11	CNR ISMAR	Barbanti Andrea

Other participants

Name	Function	Country
Abassi Saïd	SMIT	Morocco
Abidid Sana	Ministry of Works and Public Transport	Lebanon
Agherrabi Zineb	Ministry of Agriculture	M Josep Maria
Aguirre Josep Maria	University of Girona	Spain
Andueza Joanes	Subcontractor video	Spain
Antun Antonio	NAO Al Midan	Lebanon
Bejaoui Bechir	National Institute of Marine Sciences	Tunisia
	And Technologies	
Colavito Michele	National authority – Agency for Territorial	Italy
	Cohesion (PANORAMED)	
El Masbahi Et-Tayeb	Conseil de la region de l'Oriental	Morocco
Fateh Ep Cheri Aïda	National Institute of Marine Sciences	Tunisia
	And Technologies	
Gabarda Ariadna	University of Girona	Spain
Garcia-Heraiz Miguel	Secretariat of the Union for the	Spain
	Mediterranean	
Gomes Da Silva Serge	Subcontractor video	Spain
Hatziyanni Eleni	Associate partner – Region of Crete	Greece
Marchi Valentina	CNR-IBIMET	(MITOMED*PARTNER)
Msayleb Nahed	Ministry of Works and Public Transport	Lebanon
Mugosa Jelena	Ministry of Sustainable Development and	Montenegro
	Tourism	
Natalini Lara	External consultant, InEuropa Srl	Italy
Penin Thibault	Subcontractor video	France
Prats Lluis	University of Girona	Spain
Sbia Khalid	Conseil de la region de l'Oriental	Morocco





Scepanovic Hajdana	Ministry of Sustainable Development and Tourism	Montenegro
Sensi Alessandra	Secretariat of the Union for the Mediterranean	Spain
Xhaferi Rovena	Anci Toscana	Italy
Zoppeddu Milena	Arko Latino	Italy



ANNEX 2: AGENDA OF THE TRAINING COURSE

CO-EVOLVE

Promoting the co-evolution of human activities and natural systems for the development of sustainable coastal and maritime tourism

2nd Training Course AGENDA

OPEN TO MedCoast4BG PARTNERS AND OBSERVERS

Organizer: PAP/RAC and EMILIA-ROMAGNA REGION Venue: Union for the Mediterranean (UfM) premises, Palacio de Pedralbes, Pere Duran Farell 11, Barcelona, 08034 "Music Room"

Tuesday 30 October 2018 (9.00-17.00)

09:00 - 09:30	Welcome Coffee
09:00 - 09:20	Opening of the training course (Marko Prem)
09:20 - 11:00	1 st Morning session
09:20 - 09:50	Presentation of an on-the-ground experience of elaboration of an ICZM plan: the experience of the Šibenik-Knin County (Daria Povh) In this presentation, Mrs. Povh will briefly explain the local context of Šibenik
	County, before to go into more details in the very concrete experience of Plan making. A special attention will be dedicated to the action plan which is one of the results of the Coastal Plan, and to the governance schemes in place to
	implement it.
09:50 – 10:20	Presentation of "Climagine", a participatory method used for coastal plans (Veronique Evers) In this presentation, the Climagine methodology will be explained step by step in
	order to provide the participants with inputs for their participatory process. This methodology has been fine-tuned to allow the inclusion of complex problematic such as climate change.
10:20 – 11:00	Discussion Participants will be invited to speak about their own experience in Co-Evolve, and to ask for guidance on specific issues if needed.
11:00 - 11:30	Coffee Break
11:15 – 13:00	2 nd Morning session
11:30 – 11:50	Practical use of indicators on the pilot project areas (Tonia Koutsopoulou) The presentation will deal with the choice of indicators by pilot areas representatives, as well as with their use during the implementation of the Plan.
11:50 – 12:30	Discussion Participants will be invited to speak about the indicators they chose and about their use.
12:30 – 13:30	Designing and managing participation processes, e-learning course (Sabrina Franceschini and Christian Marasmi) - Introduction to the e-learning course - What inputs can be expected from the participatory processes in Co-Evolve
	pilots



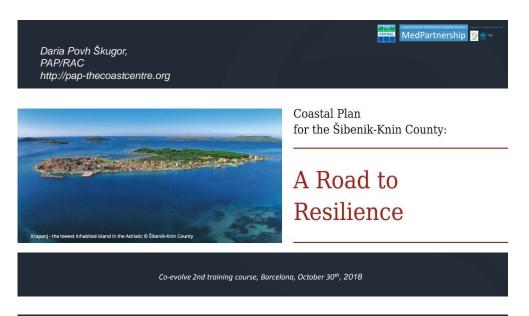


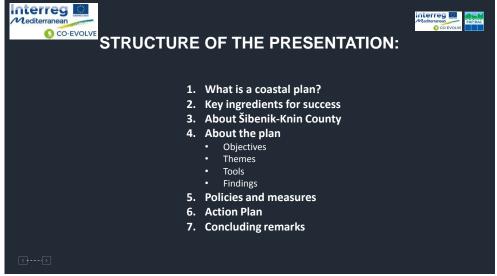
	- Practical exercise on the e-learning course platform
	/!\ Participants are advised to bring their laptop for the 'e-learing course' part
	of the training session if possible
13:30 – 15:00	Lunch Break
15:00 - 17:00	Afternoon session
15:00 - 15:40	Financial opportunities and economic instruments for pilot project
	implementation (Anil Markandya, PAP/RAC)
	- Funding opportunities for Co-Evolve pilot project areas from European Union
	and other source of financing.
	- Economic instruments and their possible use for Co-Evolve pilot area partners
15:40 - 16:10	Discussion
	The discussion shall allow the participants to clarify which are the most relevant
	funding opportunities for their area as well as to get any needed information on
	economic instruments
16:10 - 16:30	The cost benefit analysis (Anil Markandya, PAP/RAC expert)
	The consultant will present a step by step methodology for the cost benefit
	analysis and its possible application in the context of Co-Evolve pilot projects.
16:30 – 17:00	Discussion
17:00	Closure of the training course
20:00	Networking Dinner



ANNEX 3: POWER POINT PRESENTATIONS

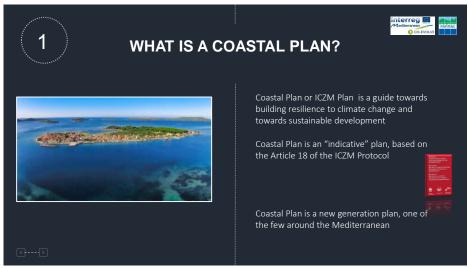
Session 1: Presentation of the elaboration of the Šibenik-Knin coastal plan







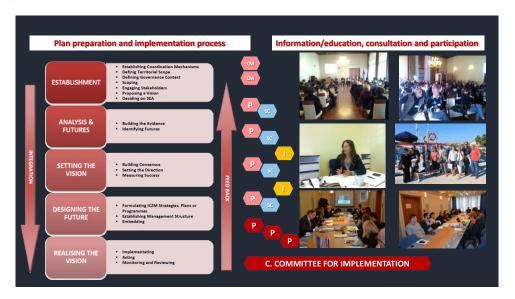


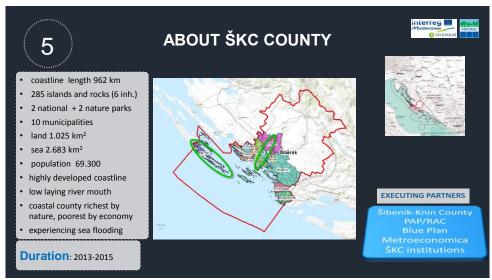


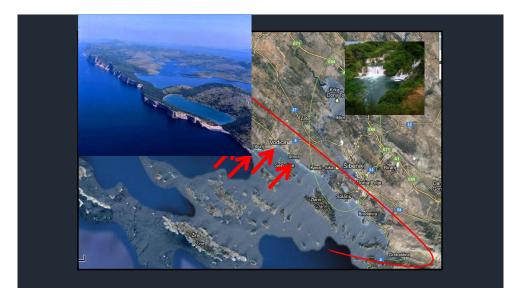






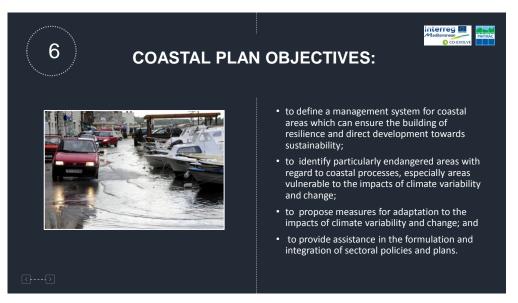




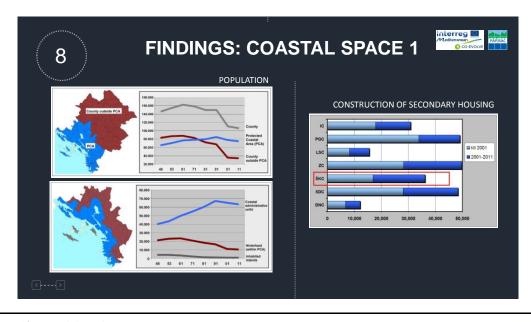






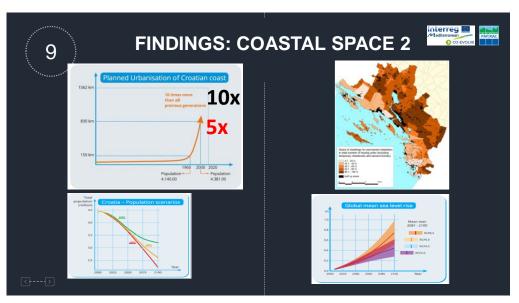




















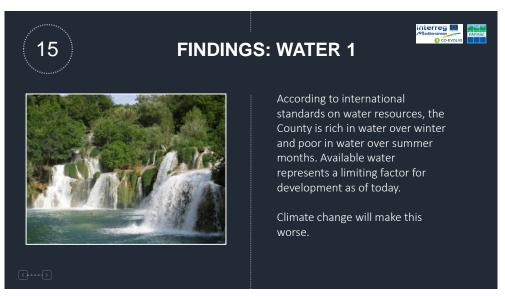


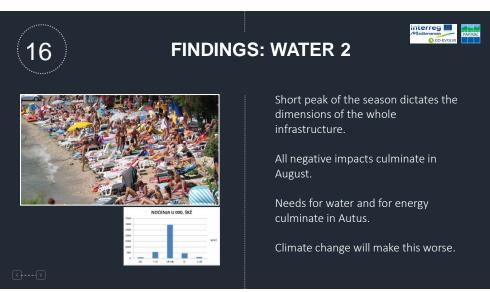








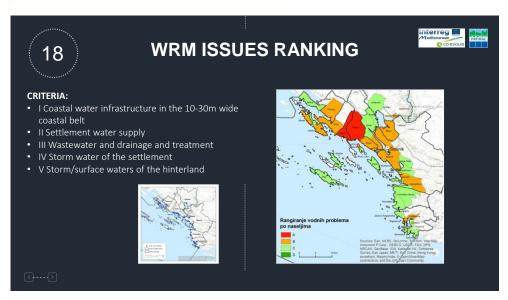


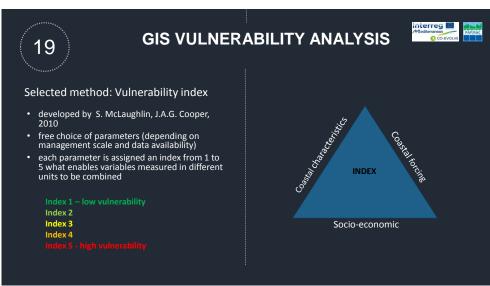


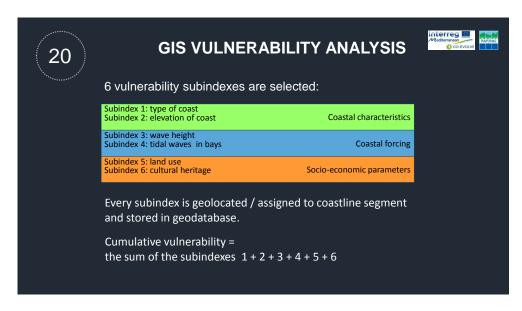






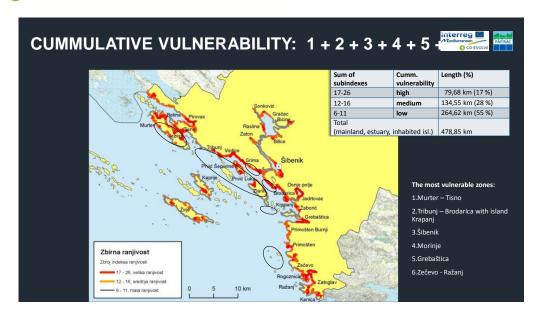


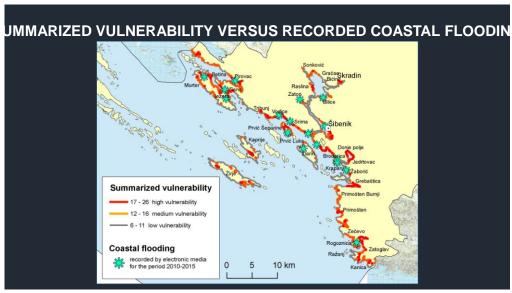


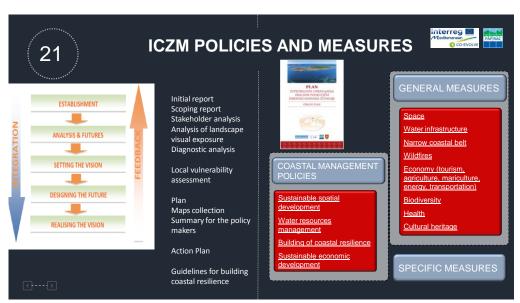








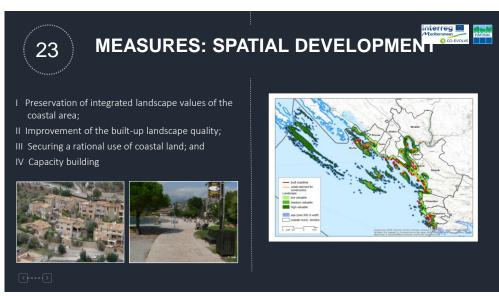


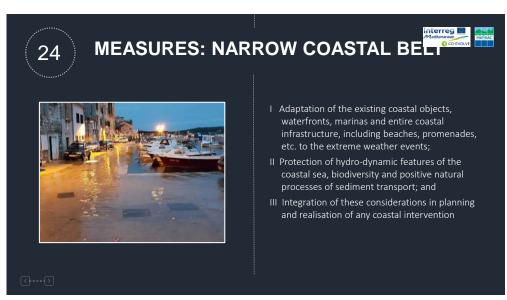






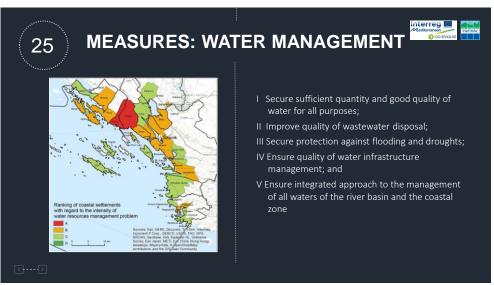


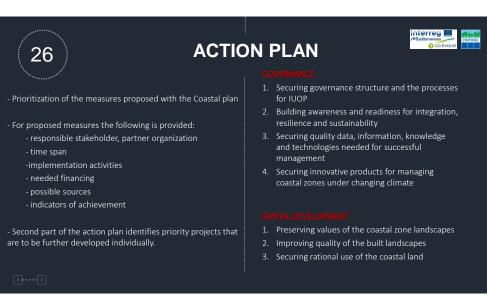


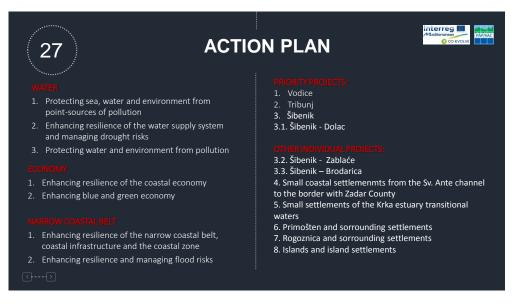


























Session 2: Climagine methodology

Climagine methodology

CO-EVOLVE training course

Barcelona, 30 October 2018







Project co-financed by the European



Participation – an obligation from the ICZM **Protocol**

Article 14

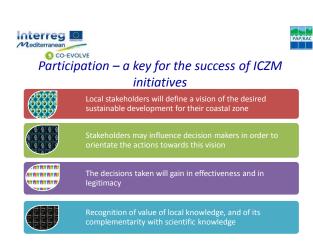
Article 14

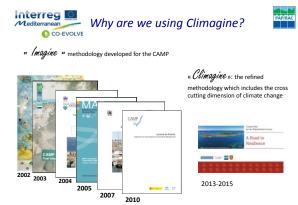
"With a view to ensuring efficient governance throughout the process of the integrated management of coastal zones, the Parties shall take the necessary measures to ensure the appropriate involvement in the phases of the formulation and implementation of coastal and marine strategies, plans and programmes or projects, as well as the issuing of the various authorizations, of the various stakeholders, including:

- the territorial communities and public entities concerned;
- economic operators:
- non-governmental organizations;
 social actors;
- the public concerned.



Such participation shall involve inter alia consultative bodies, inquiries or public hearings, and may extend to partnerships".









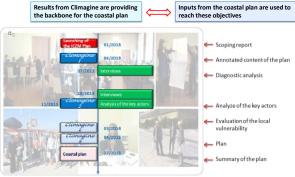


Climagine's objectives

Describe, evaluate and review past, present and future levels of sustainability of local systems using indicators and sustainability

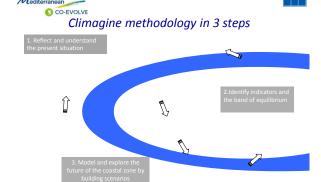
Set goals and define the necessary systems for monitoring sustainable development with a special focus on climate change







Interreg 🚨







Step 1: Reflect and understand the situation

Objectives

- Understand the situations, links, influences and other causations in the coastal zone
- Identify the main stakes
- Set a vision for the coastal zone
- Create a positive dynamism among participants

Tool

Design of rich pictures







Step 1: Reflect and understand the situation

The rich picture is a pictorial representation of environmental, social or economic systems using drawings, diagrams, or symbols.

Its main asset is that it allows the group to have a deep reflection on a given situation, and to understand the multiple dimensions of complex issues



- depict the main drivers and pressures on the coastal zones, as well as their interaction:
- illustrate which are the main obstacles to sustainable developement of the area







Step 1: Reflect and understand the situation





Step 1: Reflect and understand the situation

Particularities in the context of climate change

• The participants may not have necessary understanding of climate change to identify the priorities for a near future – importance to provide a minimum knowledge through the ICZM team of experts

Risks linked with the sea level rise in Sibenik- Knin County	Risks linked with the augmentation of the sea's temperature and salinity
Flooding of the coastal zone and towns	Impacts on the biodiversity
Threats for the safety, the health and the goods of the County population	Negative impacts on aquaculture and shellfish production
Damages on the coastal infrastructure and empechment of good functionning	Impacts on the fishing activity (raise of the number of fish living in warm waters)
Intensification of the erosion	Impacts on tourism
Impacts on the safety of navigation	

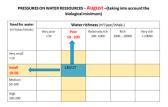


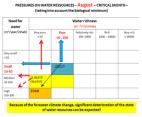


Step 1: Reflect and understand the situation

Particularities in the context of climate change

Some crucial issues may only appear when envisaged in the context of climate change

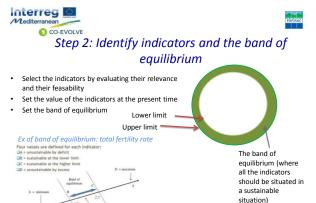












Mediterranean

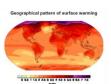
CO-EVOLVE



Step 2: Identify indicators and the band of equilibrium

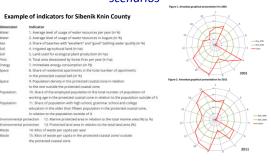
Particularities in the context of climate change

- Many of the potential indicators related to climate change impacts could be hard or impossible to measure
- Some datas may be available at the global level but not at the local level
- An expert support may be needed to confirm the availability of the data as well as its quality





Step 3: Draw amoeba diagrams and build scenarios







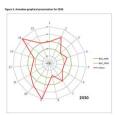
Step 3: Draw amoeba diagrams and build scenarios

Build scenarios

- Based on the tendencies identified through the making of the Amoebas, scenarios may be elaborated.
- Most often 3 scenarios are being built (pessimistic scenario, business as usual, ar alternative scenario)

scenarios provide the essential basis for longterm decision-making on development and environmental protection models – they allow to get a clear vision of the desirable future for the coastal zone.

Scenarios will provide the basis to build up the action plan



Mediterranean CO-EVOLVE

Step 3: Draw amoeba diagrams and build scenarios

Particularities in the context of Climate change

- Socioeconomic, demographic, social and environmental evolutions has to be combined with climate change scenarios High degree of uncertainty
- Taking into account the issue of climate change may request to choose a further time horizon

Suggestions

- Taking into account one scenario of IPCC can facilitate the process.
- Keeping a time horizon close to the one of strategic planning (20-30 years) is desirable to allow participants to project themselves in the exercise.

Conclusions on Climagine

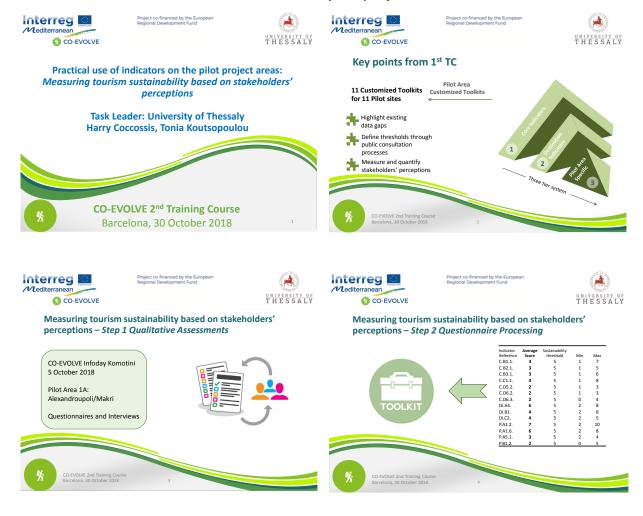
- By organizing Climagine workshops in the framework of the elaboration of the ICZM Plan, they significantly enriched stakeholders' knowledge on the impacts of climate change on their territory, allowing them to soundly plan the future of their coastal zone
- Some playful exercises such as the realization of the rich pictures helped to break down the barriers between participants and develop a team spirit which continued throughout the whole development of the plan.
- Thanks to Climagine, the stakeholders have taken full ownership of the coastal plan and continue to promote the results in Croatia and beyond.







Session 3: Practical use of indicators in the pilot project areas







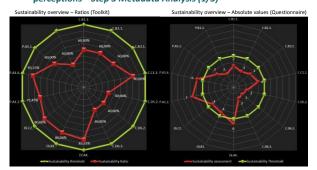
Project co-financed by the European Regional Development Fund



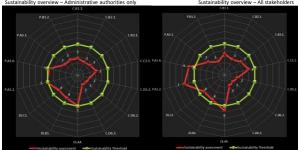
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Measuring tourism sustainability based on stakeholders' perceptions – Step 3 Metadata Analysis (1/3)



Measuring tourism sustainability based on stakeholders' perceptions – Step 3 Metadata Analysis (2/3)



Mediterranean

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Measuring tourism sustainability based on stakeholders' perceptions – Step 3 Metadata Analysis (3/3)



Mediterranean

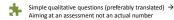
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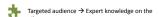
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Project co-financed by the European Regional Development Fund



Measuring tourism sustainability based on stakeholders' perceptions – Lessons learned





Interviews instead of questionnaires → clearer





Regional Development Fund



Measuring tourism sustainability based on stakeholders' perceptions – *Information gained*

Overcoming data gaps

Sustainability overview of the pilot areas recorded in time

Valuable input for policy making and actions prioritization

Step forward towards the integration of stakeholders in planning procedures



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Session 4: Designing and managing participatory processes, e-learning course





the having specific direct experience and

| Comparison |

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It is designed as a fully self-learning course: none of the planned activities include any external evaluation: the results of the various verification tests do not affect the continuation of the course and only serve as a self-assessment tool for one's learning level.





1



Mediterranean

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The course includes:

- · Participation: when and why
- · Participation tools and techniques
- · Participatory process design

 Quiz to check the acquisition of the main concepts



What can be expected from CO-EVOLVE partners

- Do the course
- Evaluate the course (at the end of the course)
- Suggest integration with imput coming from your pilot area participatory process















At the end of the project...

The course will be issued with a creative commons license and those who wish will be provided with a useful backup to perform an installation on any Moodle platform.



THANKS YOU FOR YOUR ATTENTION!



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Skype: sabrina franceschini

Web page on the Med platform: https://co-evolve.interreg-med.eu/ Twitter of the project: @CoEVOLVEmed

Web site of the partner: www.regione.emilia-romagna.it/

E-part platform: http://partecipazione.regione.emilia-romagna.it/iopartecipo Twitter: @iopartecipoplus

Session 5: Financial opportunities and economic instruments for pilot project implementation

Financial opportunities and economic instruments for pilot project implementation

Applications for the development of sustainable coastal and maritime tourism in the Mediterranean

Barcelona, Union for the Mediterranean,

Coastal tourism is profitable but needs regulation to avoid degradation and congestion

- The majority of the world's tourism is in coastal areas. 80% of all tourism takes place in coastal areas, with beaches and coral reefs amongst the most popular destinations (WWF).
- As a result these areas are subject to severe environmental pressures and congestion.
- They need regulations to prevent overdevelopment and unsustainable use.
- ▶ Instruments for such regulations include land use planning as well as economic incentives.

Measures to Ensure Sustainable Use for **Coastal Areas**

- ▶ <u>Transferable development rights</u>: Restricted development in some coastal areas to protect the environment means loss of revenue to those living in those areas. They are compensated for such a restriction by sharing the benefits of allocating rights in other areas. Such systems have been an effective planning tool in municipalities and districts in the US and Italy.
- Another important instrument that can protect coastal development is <u>taxation of increased land value</u>. It may be possible to tax increased land values when development rights are accorded for coastal areas and use the revenues for the provision of public services in these areas and protection of other areas.

The Role of Economic Instruments

- ▶ Frequently the creation of new tourism developments creates a demand for local public services and on the environment that cannot be met from the normal sources of funds, such as taxes on property or transfers from central government.
- ▶ In such cases a special charge on tourists can be levied to cover the additional costs. An eco-tax or a tourist tax, depending on what it is used for has been introduced in a number of countries with limited tax capacities
- The use a tourist tax is in place in the Balearic Islands in Spain for 6 months of the year. Greece introduced a overnight stay tax in 2018 of €0.5-€4/ person/night in 2018. In Hvar in Croatia a tourist destination popular island off the coast a tax was tried but failed.





Different Rules to Ensure Financial Sustainability of Coastal Tourist Areas

- ▶ Polluter Pays Principle
- ► Beneficiary Pays Principle
- ▶ Budget Support
- ▶ Voluntary Contributions

Legal Framework	Collection Cost	Equity	Political Accept- ability	Econor Costs
Established in OECD countries as principle and has legal	Depends, low for enterprises, higher for households	Depends	Has fairly wide acceptance	Can be lo if well designed

Assessing Different Financial Resources

Pays Principle (PPP)	countries as principle and has legal backing	enterprises, higher for households		acceptance	designed	
Budget Support	Legal facility normally exists	Low	If taxes are progressive, method is equitable	Generally quite high	High, as costs of public funds are high	
Voluntary Payments	May need to be established but could be fairly simple	Depends, but probably lower than PPP or BPP	By definition it has strong equity dimension	Generally quite high	Low	
Beneficiary Pays Principle	In some cases framework exists (PES)	As for PPP	Depends	Also has fairly wide acceptance	Can be low if well designed.	

Example of Different Instruments in "Medland"

- A regional authority has a plan to spend €100 million in developing a new tourism area with the following infrastructure and facilities:
 - ▶ Improved access roads to the area
 - ▶ Tertiary waste water treatment facilities for a group of hotels and residences
 - ▶ Establishing of marked trails, safety patrols, and cleaning of public areas near the sea.

Example of Medland

Method

Polluter

- ▶ Data has been collected on WTP etc. of beneficiaries
- ▶ Data has also been collected on users, polluters
- ▶ Data has been collected on local budgets, numbers of taxpayers etc.
- For the example it is assumed that there are 100,000 residents, of whom 25,000 are local taxpayers, each paying €1,500 per annum in property taxes. The rate of discount is 15%, which may seem high but is often required.

Example of Medland

- ▶ For the road scheme:
 - ▶ The BPP method would charge businesses and visitors in proportion to their benefits (33 percent and 67 percent respectively). The resulting payments would be €599 per business and €60 per visitor. The latter would be a one time payment for an annual visitor pass, and may be difficult to charge, unless there is a clear entrance point to the area.

 - The budget cost of the scheme would be €359 per property, or a 24% increase in the present property tax.

Example of Medland

- For the tertiary treatment:
 - ▶ A BPP plan would charge each hotel €320 per bed per annum to cover the full costs.
 - ▶ Alternatively the change could be collected from the guest at €2.2 per night. If the latter were used, the risk of too few visitors would be borne by the authority making the investment.
 - ▶ Finally a budgetary charge of €72 could be made, amounting to a 5% increase in the property tax.





Example of Medland

- ▶ For the trails, cleaning of sea areas etc.
 - ▶ The beneficiaries and polluters are the same.
 - A charge of €0.6 per day per visitor would cover the full cost of the scheme.
 - Or a budgetary cost could be imposed of €28 per year, equal to a 2% increase in the tax rate.
 - Or local NGOs could organize a cleaning of beach areas, involving schools etc. The cost of this could be borne entirely by them but perhaps the city government could provide some support.

	BPP	PPP	Budg /	get As % of
	€	€	€/Year 7	Γax Bill ∖
Road Scheme				\
Per Business per year	599.0			
Per Visitor per year	59.9			
Per Vehicle per year		299.5		
Per Taxpayer per year			359.4	24%
Tertiary Treatment				
Per Guesthouse per				
bed per year	319.5			
Per Guest per night		2.19		
Per Taxpaver per year			71.9	5%

Financial Plans for the Road Scheme

Pro Forma

- ➤ The above analysis provides a pro-forma which can be used in preparing a financial sustainability plan for each project or program.
- ▶ Data collection on different groups of polluters and beneficiaries is very important. This has to be done prior to setting up the financial schemes.
- Discussion of the options by local government, involving different stakeholders will be critical.
- ▶ This information is critical for seeking external finance.

Pro Forma

- Carry out an analysis of the results using the criteria outlined in Table 1 above, covering issues of:
 - ► Legal Framework
 - ► Collection cost and administrative efficiency
 - ▶ Equity

Marked Trails etc. Per person per day

- Political acceptability
- ▶ Economic costs of implementation.
- ► Finalise the financial plan after reviewing initial data, if necessary revising the demand estimates initially prepared.

Summary

- Financial opportunities for development of coastal tourism are not difficult to find.
- Private and public sectors need to work together to ensure the development is sustainable and balances environmental, social and economic objectives.
- ▶ Economic instruments to finance developments in a strategic way include TDRs, taxation of land value gains.
- ► Financial sustainability involves balances different financing principles

Summary

- ➤ As with all tools, it is through application and implementation that problems will be ironed out and improvement made.
- The suggestion, therefore, is that the pilot program use this framework for the financial analysis of the projects and, through discussions, reach a revised version that will stand the test of time.





Session 6: Cost-Benefit analysis

Cost Benefit Analysis

Applications for the development of sustainable coastal and maritime tourism in the Mediterranean

Outline

- Public investments and policies need to be evaluated to decide if they offer good value for the money spent. All governments undertake some kind of evaluation of the options proposed before deciding on which one to adopt.
- This session looks at economic-based rules for evaluation, but remember these are only an input to the decision-making. Eventually the policy makers decide taking account of all factors: economic, social, political.

Financial Analysis

- A project or program involves a number of financial expenditures and offers some financial returns as a result.
- ▶ A financial analysis looks at all expenditures at different points in time and all the returns. These expenditures and returns may be incurred by the government or the private sector but both are taken into account.

Financial Analysis

- ightharpoonup C t = cost incurred by the project in year t
- R_t = revenue generated by the project in year t
- r = the discount rate (risk adjusted market rate)
- ▶ A summary of the project can be given as the Net Present Value (NPV):

$$NPV = \sum (R_{\iota} - C_{\iota})/(1+r)^{\iota}$$

- ▶ The NPV > 0 for the project to have a positive financial rate of return
- ▶ If there are several projects we choose the one with the highest NPV

Financial Analysis

 \blacktriangleright Another indicator is the financial internal rate of return (FIRR), which is the value of r (r*) such that:

$$0 = \sum_{t} (R_{t} - C_{t})/(1 + r^{*})^{t}$$

- The FIRR indicates the rate of return the project or program generates and can be compared for example to the rate at which funds are borrowed on financial markets.
- ▶ The acceptable FIRR for a project will vary according to the risks it involves.

Financial Analysis

Another measure of the financial value of the project or program is the Benefit-Cost Ratio (BCR).

$$BCR = \frac{\sum_{t} R_{t} / (1+r)^{t}}{\sum_{t} C_{t} / (1+r)^{t}}$$

- The BCR has to be greater than one for a project to be financially viable, and the project with the highest BCR is chosen
- All three measures can be used for evaluation.





Financial Versus Social Analysis

- ► The financial analysis tells us only about the financial desirability of the project.
- ▶ It does not tell us if the project is socially viable.
- ▶ Social assessment differs from the financial assessment because:
 - Some impacts of a project do not generate financial flows but could represent costs or benefits to society. (e.g. environmental costs of tourism projects, loss of biodiversity from land conversion).
 - Some impact have financial flows but the size of the flow does not represent the true social cost. (e.g. a project that employs labor which is currently unemployed does not have a social cost equal to the amount paid to the labor. Taxes also drive a wedge between financial costs/benefits and social costs/benefits)
- For these reasons we also want a social assessment of the project or program.

Benefit Cost Analysis

- In this method we collect data on all costs that are incurred, including those that do not have any financial flows.
- We also collect data on all benefits that the project generates, including benefits that do not have financial flows.
- ▶ We modify those financial flows where the social value of the flow is different from the financial value.
- $\blacktriangleright\,$ Finally we use a social rate of discount $\delta,$ not the market rate of r.

Benefit Cost Analysis

- The indicators are similar to those for the financial evaluation but now with social values. The net present value is now given as:
- ▶ Where B_t is the social benefit in period to and SC_t is the social cost in period t.

$$NPV = \sum (B_t - SC_t)/(1 + \delta)^t$$

▶ The internal rate of return is now the social internal rate of return and is given as r^* :

$$0 = \sum_{t} (B_t - SC_t) / (1 + r^*)^t$$

Benefit Cost Analysis

Finally we have the social benefit cost ratio, which is now given as:

$$BCR = \frac{\sum_{t} B_{t} / (1 + \delta)^{t}}{\sum_{t} SC_{t} / (1 + \delta)^{t}}$$

 The financial and social evaluations can differ a lot depending on what items in a project do not have money values and what items are not valued correctly in social terms.

DISCOUNT RATES









Present value of 1 euro received t years from now:

Year			Discount Rate		
•	5.0%	7.5%	10.0%	12.5%	15.0%
5	0.784	0.697	0.621	0.555	0.497
10	0.614	0.485	0.386	0.308	0.247
15	0.481	0.338	0.239	0.171	0.123
20	0.377	0.235	0.149	0.095	0.061
50	0.087	0.027	0.009	0.003	0.001

Some of the Implications of Positive Discounting

- Fewer investments are undertaken, which have large initial costs and long term returns, benefits or pay-offs; e.g. hydroelectric and water irrigation projects.
- Major future costs are not given their true importance, e.g. the need to decommission large undertakings such as a nuclear or conventional power plant, or the cleaning up of contaminated land.
- The cost of storing and disposing of nuclear or toxic wastes is significantly minimized.
- The effect of high rates may be to preserve some natural areas. On the other hand, the benefits of long-term projects such as hardwood plantations are grossly minimized in terms of present values.
- The higher the rate of discount, the greater the discrimination against future generations; future generations may bear a disproportionate share of the future costs of the project.
- The higher the discount rate, the lower will be the level of capital investment and hence the lower the capital stock inherited by future¹⁴ generations.

Reasons why financial and economic analysis of tourism might differ

Social Linkages

- ▶ Tourism can contribute to poverty reduction:
 - Increased employment, with consequential increase in incomes
 - ▶ Positive environmental changes
 - Increased access to services such as water supply and sanitation as an ancillary benefit of tourism development projects
 - ► Increased access to education
- ▶ Other studies note we can make it more pro-poor by:
 - ▶ Including local communities in planning and decision-making
 - ► Ensuring a high level of local inputs in services
 - Ensuring alternative sustainable livelihoods are provided when tourism is based on reduced access to common resources

Social Linkages

- ▶ But tourism also has negative poverty impacts:
 - ▶ Price increases
 - ► Reduced access to water and energy
 - ▶ Reduced access to conservation areas/tourism areas
 - ▶ Impacts on health (e.g. AIDS)

Environment Linkages

- ▶ Congestion impacts of tourist numbers on both enjoyment of tourism destination and on environmental quality, with services such as wastewater being potentially overloaded in peak season
- ▶ Increased pollution loads in both water and air;
- Use of resources particularly fresh water and energy resources;
- ▶ Solid waste generation







Example I

- ▶ The financial cost is \$100 in year 0 and \$5 in years 1-5. The benefits are \$30 in years 1-5. the financial discount rate is 10%
- In this case 30% of the cost is labor, which is paid an amount that is 50% higher than the loss of output by moving the labor out of its current employment to employment in the project. The social discount rate is 5%
- ▶ The results are as follows: The project is not financially viable but it is

Example

Time	0	1	2	3	4	5		
	Financial							
Cost	100	5	5	5	5	5		
Revenue	0	30	30	30	30	30		
Discount R	10%							
Net Flow	-100	25	25	25	25	25		
NPV=	(\$4.75)	IRR=	8%	BCR=	0.96			
	Social							
Cost	85	4.25	4.25	4.25	4.25	4.25		
Revenue	0	30	30	30	30	30		
Discount R	5%							
Net Flow	-85	25.75	25.75	25.75	25.75	25.75		
NPV=	\$11.47	IRR=	16%	BCR=	1.26			

Example II

- ▶ The financial cost is \$100 in year 0 and \$5 in years 1-5. The benefits are \$35 in years 1-5. the financial discount rate is 10%
- ▶ In this case the project incurs an environmental cost due to loss of ESS of \$10 in each year. That is not accounted in the financial calculations. The social discount rate is
- ▶ The results are as follows: The project is now financially viable but is not socially viable.

Example II

Year	ar 0		2	3	4	5		
Financial								
Cost	100	5	5	5	5	5		
Revenue	0	35	35	35	35	35		
Discount R	10%							
Net Flow -10		30	30	30	30	30		
NPV=	\$12.48	IRR=	15%	BCR=	1.12			
Social								
Cost	100	15	15	15	15	15		
Revenue	0	35	35	35	35	35		
Discount R	5%							
Net Flow -		20	20	20	20	20		
NPV=	(\$21.99)	IRR=	0%	BCR=	0.92			

Why Financial and Social Assessment nd How to Bride the Gap

may pitter and How	to Bridge
Reason	Action
Environmental costs of the project do not generate financial costs (e.g. loss	

of biodiversity) Project generated environmental gains that do not translate into financial gains to the developer/government (e.g. protection or conservation area)

The project generates employment for low skilled people who would otherwise not be employed.

Financial costs include taxes paid by the developer but these are not social the project is not financially viable.

eveloper pay into und an amount equal to the loss

Identify the beneficiaries and develop a program to capture the benefits if possible

Pay a subsidy to the employer of the project through public funds so his costs reflect the social costs of employment?





Examples of CBAs of WB Tourism Projects

Project	Loan \$Mn.	Main Components	Economic Effects	Environme nt	Social
Abu Soma Tourism Egypt	62.5	Investment in Infrastructure Environmental Management of Red Sea	Arrivals increased by 20,000 p.a. FE earnings up by \$1.7mn/Yr. Private inv. up by \$352mn ERR ex post = 10.3%	EIA carried out and neg. impacts mitigated	Primary jobs up by 20 000 Total jobs up by 44,000
Macedonia	5.0	Establish cultural centres in pilot sites	2% annual visitor growth Economic Benefit=\$1.3 Mn Ex ante ERR=18%	Piloted innovative EA for tourism impacts	Small employmen t gain estimated
Lebanon	31.5	Historic site management & protection	No of visitors and FE earnings up 6-17% Revenues/Visitor up 37-65%	EIA influenced plan	Improved quality of life for all

Examples of CBAs of Tourism Projects

	Project	Loan \$Mn.	Main Components	Economic Effects	Environment	Social
	Cultural Heritage Project, Tunisia	17.0	Site development, marketing	ERR estimated at between 17-70% ex ante.	EA conducted and design reflects findings	Social assessment undertaken and design reflects it
	Dominican Republic	5.0	Sewerage services to handle additional waste and improve bathing quality	NPV = \$4.3 mn. At 12% discount rate.	Improvement in coastal water	
	Sustainable coastal tourism Honduras	5.0	Strengthen capacity to manage Restore cultural sites Small business training	Tourism growth up from 4% to 8% Increased park revenues Ex ante benefits range \$2.7 to \$38.4 mn/		

Conclusions about CBA

- ▶ We cannot value all benefits and costs in money terms.
- We do not take account of who gains and who loses distributional factors are not included.
- Different actions have different levels of uncertainty and this is not accounted for.
- Some of these elements can be addressed in a CBA framework but others need to be taken into account outside the framework.
- Ex ante estimates are not the same as ex post. Good t estimate ex post figures to learn what mistakes were made when doing the initial analysis.

