**MED4EBM - Mediterranean Forum For Applied Ecosystem-Based Management**

**Work Packages 3 and 4. Technical Report on activities executed and deliverables produced.**

**Release 1, Covering Phase 1 of Work Packages 3 and 4 implementation course. December 14th, 2020.**

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**ABOUT THIS DOCUMENT**

The present document reports on technical items related to the activities executed and the deliverables produced in the implementation course of Work Packages 3 and 4 of the *Mediterranean Forum For Applied Ecosystem-Based Management* (MED4EBM) partnership project.

This report is conceived and structured as an evolving document, which will be progressively updated and integrated along the execution course of the various phases for the implementation of the said Work Packages 3 and 4. When each of these phases is completed, a new release of this document is issued which includes the reporting facts on this very phase.

The current release of this report covers Phase 1, which has been executed between June 15th and November 12th, 2020. The bulk of this implementation period falls in MED4EBM 2nd Semester of implementation (April 3rd to October 2nd, 2020). However, due to the 8-months-long negotiation between the ENI CBC MED Management Authority and the MED4EBM Lead Applicant on administrative issues, MED4EBM actual implementation activities could start only mid-June 2020; therefore Phase 1 execution period must be more appropriately considered to coincide with the first four months of MED4EBM deployment course.

The various releases of this report, as well as all the related MED4EBM Deliverables, will be uploaded in the Library section of MED4EBM website (further details at Section 5).

**1 - BACKGROUND**

**1.1 - The *Mediterranean Forum For Applied Ecosystem-Based Management* (MED4EBM) project**

The *Mediterranean Forum For Applied Ecosystem-Based Management* (MED4EBM) initiative is a partenrship project funded by the ENI CBC MED Programme 2014-2020, under the Thematic Objective B.4 (Environmental protection, climate change adaptation and mitigation) and Thematic Priority B.4.4 (Incorporate the Ecosystem-Based management approach to ICZM into local development planning). MED4EBM duration is three years and its total budget is 3,310,237.60 Euro; the project partnership spans four countries, as outlined in the table here below.

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| **Role** | **Acronym** | **Name of the organisation** | **Country** |
| BEN | UNDP | United Nations Development Programme, Jordan Country Office | Jordan |
| PP1 | PROGES | PROGES - Planning and Development Consulting | Italy |
| PP2 | AdT | Managing body of "Riserva Naturale del Lago di Tarsia e della Foce del Fiume Crati" - Associazione Amici della Terra Italia. | Italy |
| PP3 | JREDS | Royal Marine Conservation Society of Jordan | Jordan |
| PP4 | INSTM | National Institute of Marine Sciences and Technologies | Tunisia |
| PP5 | TCNR | Tyre Coast Nature Reserve | Lebanon |

MED4EBM aims at enhancing capacities of various stakeholders and institutional actors involved in the management of coastal and marine areas, and at establishing a cooperation and coordination platform for them to effectively implement Ecosystem-Based Integrated Coastal Zone Management (EB-ICZM). Governments and other EB-ICZM stakeholders can use this platform to take informed decisions on planning and managing coastal resources and to achieve effective coordination on the ground. In turn, this will help wide-spreading Ecosystem Based Management (EBM) in the Mediterranean consistently with the pursuits of the Barcelona Convention and its ICZM Protocol.

MED4EBM proposes the use of innovative methods and tools to tackle the main issues which currently limit the widespread incorporation of EBM into ICZM processes (EB-ICZM). These are related to the difficulties that the decision-makers and the professional team involved still face because EB-ICZM require:

1. intense and continuous efforts to coordinate management actions across a wide array of stakeholders (e.g. governmental agencies; international programs and projects; social and economic associations) and application sectors (e.g. fisheries, tourism, transport, biodiversity conservation);
2. intensive work by the team of professionals implementing EB-ICZM, with particular reference to adjusting the available guidelines to the specificities of the relevant ecological and socio-economic systems, as well as in operationalising them for their effective application in area of interest;
3. significant amount of data and large databases.

MED4EBM intends breaking the above-mentioned barriers using an innovative land and sea management package which makes EB-ICZM much easier to achieve for the professional team, the stakeholders and the decision-makers involved. This package has been developed by PROGES and is named Integrated Spatial Planning (PROGES-ISP); it consists of a software application and a set of methodological tools, to plan, implement and monitor EBM through a participatory and evidence-based approach.

The said methods allow handling the EB-ICZM multi-stakeholders analytical processes through a straight-forward path, providing analytical methods based on deterministic rather than statistical ecological and socio-economic assessments. These methods help the planning team and relevant stakeholders to identify and quantitatively assesses the relationships between ecosystem components, functions, and services, along with the associated human activities, toward the establishment of a multi-stakeholders ICZM scheme. The software package enables the analysis of spatial and tabular datasets and the compilation of data-aware advanced reports via a multi-windows interface which facilitates the browsing of large datasets through an ecosystem-based logical mapping framework.

MED4EBM will contribute to the achievement of ENI CBC MED Expected result 4.4.1[[1]](#footnote-1), by adding to Expected result indicators[[2]](#footnote-2) 4.4.1.A and 4.4.1.A.

MED4EBM official starting date is October 3rd, 2019 however, as recalled above, actual implementation activities could not start till mid-June 2020, when the pre-financing funds were transferred to all partners.

1.2 - MED4EBM deployment rationale

MED4EBM deployment is organized in six Work Packages (WPs), according to the logic sketched in Fig. 1.1. These WPs are listed here below:

* WP1: Management,
* WP2: Communication,
* WP3: EBM-DSS: establishing effective management protocols and tools,
* WP4: Development of an Ecosystem-Based ICZM governance protocol in each of the Project target areas,
* WP5: Capacity and competence building,
* WP6: Capitalization of results: the Mediterranean Centre for disseminating EBM tools and methods.

WP1 (Management) ensures the coordinated and smooth management of all other MED4EBM WPs. The strategic decision-making and overall project supervision are granted through the MED4EBM Steering Committee (SC), where each Partner is represented. A Project Management Unit (PMU) is also established by the Lead Applicant for guiding and supervising the execution of the project, as well as to handle the official communication with the Managing Authority of the ENI CBC MED Programme. Partners take part in different Work Groups (WG) for the execution of MED4EBM WPs; composition of these WGs varies according to the specific role of Partners in each WP.



**Fig. 1.1 - MED4EBM deployment rationale**

MED4EBM core technical activities and outputs are integrated in WP3 (establishing EB-ICZM-DSSs) and WP4 (developing EB-ICZM-GPs), which aims at establishing EB-ICZM schemes in four target areas across ENI CBC MED Programme Area. These MED4EBM target areas are costal and marine zones around four the following protected areas:

* Golfo di Corigliano, Riserva Naturale del Lago di Tarsia e della Foce del Fiume Crati (Italy);
* Gulf of Aqaba (Jordan);
* Kniess Islands Nature Reserve (Tunisia);
* Tyre Coast Nature Reserve (Lebanon).

The above-listed target areas have been selected also because they share ecological similarities: 3 are humid areas, of which 2 Ramsar sites; 2 are characterised by the presence of freshwater estuaries that outflow to the sea creating fresh/marine water interface; all are bird migration hotspots; 2 are important sea turtles nesting sites. Furthermore, these areas face similar problems to be addressed: large agricultural areas; touristic and other infrastructure development; fisheries.

More specifically, WP3 aims at establishing one Ecosystem-based ICZM Decision Support Systems (EB-ICZM-DSS) in each of the project’s target areas by using the PROGEs-ISP package mentioned in Section 1.1. To this end, the PROGES-ISP methodological protocol will be applied which consists of five easy-to-apply sequential steps to handle the complex multi-stakeholder analytical processes that characterize EB-ICZM applications. This protocol adopts simple deterministic ecological assessments, as opposite to the complex statistical and/or algorithmic approaches currently used in ecosystem-based management applications. It identifies and quantitatively assesses the relationships between ecosystem components functions and services, as well as the associated human activities to establish a multi-stakeholders EB-ICZM scheme. The application of this protocol is associated with the use of the PROGES-ISP software for the analysis of spatial and tabular datasets, as well as for the compilation of data-aware advanced reports via a multi-windows interface.

The EB-ICZM-DSS resulting from WP3 will be used in WP4 to perform a systemic, indicator-based, and participatory analysis to develop an EB-ICZM Governance Protocol (EB-ICZM-GP) for each of the MED4EBM target areas. Using the EB-ICZM-DSS will ensure that: (1) each human activity is managed in the context of ALL the ways it interacts with marine and coastal ecosystems, and (2) multiple activities are being managed for a common outcome. The backbone of each the EB-ICZM-GPs will be jointly drafted by local actors and stakeholders, being their active engagement in the planning and management process the key to the success of EB-ICZM applications. This joint drafting will be executed by applying a specific methodology, which identifies in a systematic manner all the significant cause-effect relationships between the different components of the local socio-ecological ICZM dynamics. These cause-effect relationships are then objectively assessed using the EB-ICZM-DSS of WP3 for establishing the EB-ICZM-GPs to implement flexible management schemes and improve their responsiveness to monitoring results, so as to actually achieve adaptive and effective EB-ICZM.

Outputs of WP3 and WP4 will add to the following ENI CBC MED Output indicators[[3]](#footnote-3): 4.4.1.1.a, 4.4.1.1.b, 4.4.1.1.c, 4.4.1.2.e, 4.4.1.3.f, 4.4.1.5.h.

The deployment of WP5 (Capacity and competence building) will support the execution and enhance the effectiveness of WP3 and WP4 by providing ad hoc training packages, mentoring/coaching programs and tools/equipment supplies targeting all relevant EB-ICZM actors and stakeholders of the four MED4EBM focused areas (including MED4EBM Partners).

Technical achievements from WP3, WP4 and WP5 are capitalised in the framework of WP6 through the establishment, in the premises of the Riserve naturali del Lago di Tarsia e della Foce del fiume Crati (managed by AdT), of a permanent Mediterranean Centre for disseminating EBM tools and methods.

The said Centre will work as a permanent Forum, where regional EBM and ICZM actors will be provided with periodic opportunities for exchanging their experiences in applying and updating EBM and ICZM methods and tools. It will act as a knowledge-sharing platform on EBM tools and methods, benefitting local administrators and stakeholders involved in coastal planning and management, being also a training hub on the innovative EB-ICZM tools and methods promoted by MED4EBM. WP5 will also be a parallel contribution to launch the Forum, designing and executing specific activities to involve other Mediterranean EBM and ICZM actors to learn and practice the tools and methods promoted by the MED4EBM.

A fundamental contribution toward the success of MED4EBM, as well as the effectiveness and sustainability of its outcomes, is given through the execution of WP2 (Communication). WP2 will build upon the outcomes of all other WPs to sensitize institutions, stakeholders, citizens, tourists, and increasing their awareness around values associated with ecosystems, thus bringing a lot in terms of biodiversity conservation and sustainable development. More specifically WP2 serves a double purpose:

1. To ensure adequate project’s visibility and build up awareness among various relevant audiences about the principles and practices of EB-ICZM, as well as to disseminate the innovative approaches, methods and tools promoted by MED4EBM;
2. To raise awareness and increase the sense of ownership of local stakeholders and communities about ecosystem, natural, cultural, aesthetic and spiritual values of their respective areas, and the ensuing need to manage those areas in an integrated and inclusive way.

As for partnership roles, UNDP acts as Lead Applicant to guarantee that MED4EBM WPs are effectively and timely deployed. PROGES will provide the expertise on the methods to incorporate EBM into ICZM and provide the PROGES-IS software for establishing the EB-ICZM-DSS (WP3 and WP4). AdT, JREDS, TCNR and INSTM will organize, lead and implement all the activities for the tailor-making of all MED4EBM WPs in their respective target areas, including the liaisons for the active involvement of relevant stakeholders, the definition of context-specific indicators and the related data collection. AdT will also establish the Mediterranean Centre for disseminating EBM tools and methods.

1.3 - MED4EBM Work Packages 3 and 4: methods, phases, activities, and outputs

For the deployment of WP3 and WP4 an EB-ICZM Technical Team is being established by AdT, PROGES (WPs Leader) and UNDP. This team is to include an EBM Methodological Coordinator (PROGES) and two EBM Experts (UNDP and AdT). The EB-ICZM Technical Team will work in close coordination and collaboration with EB-ICZM Local Units established by AdT, INSTM, JREDS and TCNR for implementing WP3 and WP4 in the four MED4EBM target areas.

The deployment of WP3 and WP4 is organized in six operational phases, as listed here below:

**Phase 1**. Inception activities: Partner’s base training, thematic scoping, and stakeholder analysis.

**Phase 2**. *Ecosystem Context Analysis*: recognizing connections within and across ecological and human systems spanning over the focused area.

**Phase 3**. Development of indexes and indicators for the quantitative assessment of EB-ICZM social, economic, and ecological dynamics.

**Phase 4**. Data gathering and construction of tabular and GIS databases.

**Phase 5**. *System Cause-Effect-Analysis*: assessment of ecological risks and socio-economic stresses and identification of management interventions.

**Phase 6**. Mainstreaming EB-ICZM measures into local development plans.

The above listed six phases implement activities and deliver output of WP3 and WP4 as scheduled in the table here below.

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| **Table 1.1 - Synopsis of WP3-WP4 Implementation Phases and corresponding Outputs and Activities** | |
| **MED4EBM Outputs** | **WP3-WP4 Implementation Phases and MED4EBM Activities** |
| Output 3.1 (Structural models of the ecological and socio-economic dynamics of the four Project’s target areas). | Phases 1 and 2: Activity 3.1.1 (Qualitative modelling of the socio-ecological ICZM dynamics) |
| Phase 3: Activity 3.1.2 (Quantitative modelling of the socio-ecological ICZM dynamics). |
| Output 3.2 (Ecosystem-based ICZM Decision Support Systems are established in the Project’s target areas). | Phases 4: Activity 3.2.1 (Data collection and development of tabular and GIS databases) and Activity 3.2.2 (Development of a tailor-made EB-ICZM-DSS software tool for each of the Project’s target areas). |
| Output 4.1 (An integrated set of Ecosystem-Based ICZM measures is developed in each Project’s target areas). | Phases 5: Activity 4.1.1 (Drafting of integrated sets of Ecosystem-Based ICZM measures). |
| Output 4.2 (An Ecosystem-Based ICZM governance protocol is established in each Project’s target areas). | Phases 6: Activity 4.2.1 (Mainstreaming the Ecosystem-Based ICZM measures in the programs and projects agenda of local actors). |

Technical and methodological references for the execution of WP3 and WP4 are illustrated in detail in the document titled *Technical and methodological references and operational framework for the execution of WP3 and WP4* (Deliverable 3.1.1); this document also provides all planning elements to schedule the execution of WP3 and WP4 activities in the four MED4EBM target areas.

**2 - REPORT ON THE IMPLEMENTATION OF WP3 AND WP4**

**2.1 - Phase 1: Inception activities: Partner’s base training, thematic scoping, and stakeholder analysis.**

**2.1.1 - Objective**

The main goals for Phase 1 have been:

* Introduction and base training of Partners on the MED4EBM EB-ICZM methods and tools;
* Definition of the spatial and thematic scopes of the four EB-ICZM application cases to be implemented by MED4EBM, as well as related actors and stakeholders.

**2.1.2 - Tasks executed**

**Overview**

The execution of WP3 and WP4 has been -and is being- affected by significant operational constraints related to the need to recover the 8-months delay in the starting of MED4EBM implementation activities and to adapt to the new operational framework determined by the Covid-19 pandemic.

In relation to the recovery of the initial delay, Partners have been forced to work simultaneously on both their administrative/operational mobilisation, for executing which three months had been allocated in the MED4EBM Application Form, as well as on designing and executing WP3 and WP4 technical tasks. Also, operational schedule has been squeezed in the attempt to recover the said delay.

With respect to the Covid-19 pandemic, in-presence meetings and workshops have been replaced with remotely coordinated work and Webinars (using Microsoft Teams platform). This has multiplied the level of effort needed to execute the various tasks, because of the need to: split workshops in series of shorter working/training sessions involving smaller groups of participants; avoid too long sessions for coping with the shorter attention span typical of remote working sessions and webinars; prepare differently and simulate working/training sessions in advance to enhance their effectiveness.

All tasks of Phase 1 have been successfully executed and related goals effectively achieved. All Partners have learned enough on MED4EBM methods and tools to move forward in the implementation of WP3 and WP4, and avail spatial/thematic scoping and an actors/stakeholders map to adequately plan for the execution of next Phases. Local Units for handling EB-ICZM application cases in the four MED4EBM target areas have been established by the Partners, and the EB-ICZM Technical Team is expected to be completed soon.

Report drafting on methods, tasks, and outcomes of Phase 1 has been performed in the second half of November 2020.

**Task 1**

The first Task in the execution of Phase 1 has been the drafting of a comprehensive document to illustrate technical and methodological references and a work-plan for the execution of WP3 and WP4. This document (Deliverable 3.1.1) has been prepared by PROGES (June 15th to August 4th, 2020) and has then been shared with and illustrated to all partners during the second MED4EBM steering committee (July 16th and August 5th, 2020).

**Task 2**

All partners have been trained by PROGES on the principles, objectives and methodologies of Ecosystem Based Management in coastal and marine areas as well as on the methods and tools applied by MED4EBM to promote EB-ICZM in the Mediterranean by establishing the EB-ICZM-DSSs and developing the EB-ICZM-GPs mentioned in Section 1.1 and 1.2.

An applied on-the-job training exercise has been conducted (August 28th to November 6th, 2020) through a series of webinars sessions and homework exercises by trainers which has covered all the five phases for implementing WP3 and WP4 illustrated in Section 1.3. More specially, the trainees have executed applied training exercises to implement all EB-ICZM-DSS analytical methods (Deliverable 3.1.1, Section 2.2.2) using the EB-ICZM-DSS software tools (Deliverable 3.1.1, Section 2.2.3) focusing their own areas and using their own datasets. The training has been attended by 30 professionals from the four partners, as well as by 5 representatives of local stakeholders and other 2 staff of ENI CBC MED synergic projects. Attendance sheets and screenshots form this training are available in Deliverable 3.1.7.

**Task 3**

Task 3 has been executed in parallel with Task 2, between September 8th and 30th 2020, and has focused the drafting of a *Thematic Scoping and Key-Stakeholders Mapping Report* for each of the four MED4EBM target areas (Deliverables 3.1.5, 3.1.6, 3.1.7 and 3.1.8). Toward better informing the development of these *Reports*, two ICZM profiles have also been prepared for Keniss Islands (Deliverable 3.1.5: *Kneiss Islands: Environmental characteristics and perspectives to Integrated Coastal Zone Management program*) and Aqaba (Deliverable 3.1.4: *Full information on Aqaba Coastal Zone*) by INSTM and JREDS respectively.

**Task 4**

During Task 4 (October 22nd to November 12th, 2020) Partners have been trained for using the PROGES-ISP software; applied-training exercises have led to the establishment of basic EB-ICZM-DSSs by AdT, INSTM, JREDS, and TCNR (Deliverables 3.2.1, 3.2.2, 3.2.3 and 3.2.4).

**2.3 - Deliverables produced**

**Deliverable 3.1.1**

A detailed document illustrating technical and methodological references and providing an overall work-plan for the execution of WP3 and WP4.

**Deliverable 3.1.2**

A progress and technical report to define a consistent framework for integrating key goals, tasks executed, outputs achieved, and deliverables produced in the first Phase of WP3 and WP4 execution.

**Deliverable 3.1.3 and 3.1.4**

Two ICZM profiles toward better informing analytical activities of Phase 1 for Keniss Islands (3.1.3: *Kneiss Islands: Environmental characteristics and perspectives to Integrated Coastal Zone Management program*) and Aqaba (3.1.4: *Full information on Aqaba Coastal Zone*) prepared by INSTM and JREDS respectively.

**Deliverables 3.1.5, 3.1.6, 3.1.7 and 3.1.8**

Four *Thematic Scoping and Key-Stakeholders Mapping Reports*, one for each of the MED4EBM target areas. These have been prepared in the execution of Task 3 by AdT, INSTM, JREDS, and TCNR using a specific format prepared and technical instructions provided by PROGES. They consist of synoptic text tables which, for each of the MED4EBM target areas, defines the following essential elements to plan and implement EB-ICZM applications:

* main components of key coastal and marine biophysical systems,
* plant Species of interest,
* animal Species of interest,
* coastal infrastructures,
* economic activities,
* available data.

Key management issues and relevant actors and stakeholders are also associated to each of the above listed elements in the same text tables.

**Deliverable 3.1.9**

Attendance sheets and screenshots form this training are available in Deliverable 3.1.7.

**Deliverables 3.2.1, 3.2.2, 3.2.3 and 3.2.4**

Four software applications established by AdT, INSTM, JREDS, and TCNR using the PROGES-ISP software shell, which constitute the embryonic stage of the four EB-ICZM-DSSs which represent MED4EBM Output 3.2. These applications will be progressively developed/enhanced all-through the implementation of WP3 and WP4 by integrating into it all the produced deliverables as they will be ready (e.g. EB-ICZM reference models; indicators and related datasets; EB-ICZM management measures). At this initial stage, the said applications integrate the above-mentioned *Thematic Scoping and Key-Stakeholders Mapping Reports* and some contextualised sample of the *System Boxes-and-Arrows diagrams* constituting the backbone of the EB-ICZM reference models (as described in Deliverable 3.1.1, Section 2.2.2).

**3 - ACHIEVEMENTS FOR MED4EBM OUTPUTS OF WP3 AND WP4**

The deliverables produced throughout the execution of Phase 1 contribute to the achievement of MED4EBM Outputs as illustrated in table 2.1 here below.

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| **Table 2.1 - Synopsis of how produced deliverables build-up MED4EBM Outputs** | |
| **MED4EBM Outputs** | **Component Deliverables** |
| Output 3.1 - Structural models of the ecological and socio-economic dynamics of the four Project’s target areas.  *Output to be achieved in full during Phase 2.* | Deliverable 3.1.2 defines a consistent framework for integrating key goals, tasks executed, outputs achieved, and deliverables produced in the first Phase of WP3 and WP4 execution. By linking to Deliverable 3.1.1, this report also illustrates detail the technical and methodological references for all Outputs of WP3 and WP4. |
| Deliverables 3.1.5, 3.1.6, 3.1.7 and 3.1.8 are the *System Matrices* which constitute the first of the two elements of the structural models resulting from the *Ecosystem Context Analysis*, defined as Output 3.1 in the MED4EBM Application Form.  At the present stage, the said *System Matrices* have been developed internally by Partners and will be further developed/rebuilt with the active contribution of key stakeholders during Phase 2. Deliverables 3.1.3 and 3.1.4 also provide additional background information for deliverables 3.1.6 and 3.1.7. |
| Output 3.2 - Ecosystem-based ICZM Decision Support Systems are established in the Project’s target areas.  *Output to be achieved in full during Phase 4.* | The four PROGES-ISP software applications referred to as deliverables 3.2.1, 3.2.2, 3.2.3 and 3.2.4 constitute the embryonic stage of the EB-ICZM-DSSs of Output 3.2. Deliverable 3.1.9 provides evidence of the Partners training for developing and handling the said EB-ICZM-DSSs. |

**4 - STATE OF PLAY AND WAY FORWARD**

Thanks to the Tasks executed and the Deliverables produced as illustrated in section 2.1, MED4EBM has started recovering the initial delay in launching its actual implementation activities. All Partners have been actively contributing to the execution of all Tasks, ensuring also adequate effectiveness to the related achievements.

The Partners have also joined up efforts to develop a common Task-Plan for the effective deployment of WP3 during the 3rd MED4EBM semester. The said Task-Plan includes fifteen Tasks as outlined here below.

**Phase 1**

1. Drafting of technical and methodological references and operational framework for the execution of WP3 and WP4.
2. Base training on EB-ICZM-DSS (drafting of scoping report).
3. Drafting of the Thematic Scoping and Key-Stakeholders Mapping Report.
4. Establishment of ISP applications and training on the PROGES-ISP software.

**Phase 2**

1. Gathering of available primary data.
2. Entering gathered primary data into ISP application.
3. Presentation and illustration of ISP application to relevant stakeholders.
4. First Workshop: participatory development of System Matrices with key stakeholders.
5. Second Workshop: participatory development of System box-and-arrows Diagram with key stakeholders.
6. Preparation of communication and technical material/ reports, including for scientific events.

**Phase 3**

1. Drafting guidelines for developing sets of indexes and indicators (specific to items of the System box-and-arrows Diagram).
2. Drafting of initial sets of indexes and indicators (proposals by Partners to relevant stakeholders)
3. Review of the initial sets of indexes and indicators (Task 3) with relevant stakeholders (by-sector revisions and proposals for possible integrations).
4. Third workshop: development of the sets of indexes and indicators with key stakeholders.
5. Preparation of communication and technical material/ reports, including for scientific events.



**Fig. 1.1 - Deployment schedule for Phases 1, 2 and 3**

According to the planned schedule of the above listed Tasks reported in Fig. 4.1, it is envisaged that the implementation of WP3 and WP4 will recover three of the eight months of the MED4EBM initial start-up delay (Activity 3.1.2 ending at month 19 vs. 14 as scheduled in Application Form, corresponding to a delay of 5 months vs. 8 months start-up delay).

**5 - MAP TO MED4EBM WEBSITE LIBRARY**

The various releases of this report, as well as all the related Reference Documents and Deliverables, will be uploaded by the MED4EBM Lead Applicant in the Library section of MED4EBM website (www.enicbcmed.eu/projects/med4ebm). The map to identify these uploads is provided in the following table.

|  |  |  |
| --- | --- | --- |
| **Item** | **Library section** | **Download-link in the library section** |
| Deliverable 3.1.1. | Outputs. | 3.1.1. Technical and methodological references and operational framework for the execution of WP3 and WP4. 2020-08-04. |
| Deliverable 3.1.2. | Outputs. | 3.1.2. Work Packages 3 and 4. Technical Report on activities executed and deliverables produced. Phase 1. 2020-12-14 (this report). |
| Deliverable 3.1.3. | Outputs. | 3.1.3. Full information on Aqaba Coastal Zone. 2020-09-21. |
| Deliverable 3.1.4. | Outputs. | 3.1.4. Kneiss Islands: Environmental characteristics and perspectives to Integrated Coastal Zone Management program. 2020-08-31. |
| Deliverable 3.1.5. | Outputs. | 3.1.5. EB-ICZM-DSS for Golfo di Corigliano. Thematic Scoping and Key-Stakeholders Mapping Reports. 2020-09-25. |
| Deliverable 3.1.6. | Outputs. | 3.1.6. EB-ICZM-DSS for the Gulf of Aqaba. Thematic Scoping and Key-Stakeholders Mapping Reports. 2020-09-21. |
| Deliverable 3.1.7. | Outputs. | 3.1.7. EB-ICZM-DSS for Kneiss Islands. Thematic Scoping and Key-Stakeholders Mapping Reports. 2020-09-25. |
| Deliverable 3.1.8. | Outputs. | 3.1.8. EB-ICZM-DSS for Tyre Coast Nature Reserve. Thematic Scoping and Key-Stakeholders Mapping Reports. 2020-09-30. |
| Deliverable 3.1.9. | Outputs. | 3.1.9. On-line Training: Technical and methodological references and operational framework for the execution of WP3 and WP4. Attendance sheets and screenshots. |
| Deliverables 3.2.1, 3.2.2, 3.2.3 and 3.2.4. | Outputs. | 3.2.1, 3.2.2, 3.2.3, 3.2.4. Technical illustration of EB-ICZM-DSS applications. Phase 1. 2020-11-12. |

1. 4.4.1: Enhanced capacity of public authorities to plan for, sustainably manage, use and monitor their coastal ecosystems, employing an effective participatory approach involving relevant stakeholders and local communities. [↑](#footnote-ref-1)
2. 4.4.1.A: Newly adopted integrated strategies and tools for sustainable management of coastal areas, etc. that include appropriate reflection of the ecosystem approach and that have been developed through a participatory exercise.

   4.4.1B: Number of coastal cities, relevant public authorities and other key stakeholders adopting new ICZM plans/guidelines for the sustainable management and use of coastal areas. [↑](#footnote-ref-2)
3. 4.4.1.1.a: Number of replicable or transferable actions to improve or restore the targeted ecosystem.

   4.4.1.1.b: Number of participating organisations that cooperate for improved local governance in coastal zones.

   4.4.1.1.c: Number of organisations and their staff participating in workshops/training.

   4.4.1.1.e: Number of systemic tools available to strengthen planning, monitoring and management of coastal areas.

   4.4.1.1.f: Number of communication and awareness-raising events.

   4.4.1.1.h: Number of studies, based on data collection activities, studying interlinkages between human activities and the environment. [↑](#footnote-ref-3)