



ADAPTATION TO CLIMATE CHANGE IN THE NILE DELTA THROUGH INTEGRATED COASTAL ZONE MANAGEMENT PROJECT

**INTEGRATED COASTAL ZONE MANAGEMENT IN THE  
NORTHERN COAST OF EGYPT  
– A SCOPING STUDY –**

**DELIVERABLE 7:**

**SUMMARY OF THE CONSULTATION PROCESS**

FEBRUARY 2017





## FOREWORD

This is the seventh of the eight deliverables of the study entitled *Integrated Coastal Zone Management in Egypt- a Scoping Study*, according to Amendment N°1 (entered into force on 1<sup>st</sup> November, 2016) to the Contract signed by the Environmental Hydraulic Institute Foundation “IHCantabria” and the Adaptation to Climate Change of the Nile Delta and Sea Level Rise through Integrated Coastal Zone Management Project (ACCNDP) on 14<sup>th</sup> July 2016.

This seventh deliverable, entitled “*Summary of the consultation process*” is dated 28<sup>th</sup> February 2017. It summarizes the activities developed under Task 2 “Consultation, awareness raising and participation. Then, this report describes the consultation process carried out and summarizes the contributions of stakeholders that have been included into Deliverable 5 “*Final Study Report*”.

The Consultant (IH Cantabria and Environics) was fortunate in receiving full cooperation from ACCNDP.

Santander, 28<sup>th</sup> February 2017.

Raúl Medina Santamaría.

Project Manager



**INDEX**

**1. INTRODUCTION ..... 3**

**2. INCEPTION WORKSHOP ..... 4**

    2.1. Participatory activities ..... 6

    2.2. Inventory and synthesis of responses ..... 8

**3. INDIVIDUAL INTERVIEWS ..... 11**

**4. FINAL WORKSHOP ..... 16**

    4.1. Participatory activity ..... 18

    4.2. Inventory and synthesis of responses ..... 19

**5. WEB SITE OF THE ICZM SCOPING STUDY ..... 29**

- ANNEX I: INCEPTION WORKSHOP – ATTENDANCE LIST**
- ANNEX II: QUESTIONNAIRE TO VALIDATE THE LIST OF NATIONAL STAKEHOLDERS**
- ANNEX III: FINAL WORKSHOP – ATTENDANCE LIST**
- ANNEX IV: OUTLINE FOR INDIVIDUAL INTERVIEWS WITH KEY STAKEHOLDERS**

## List of figures

Figure 1. Inception Workshop .....	4
Figure 2. Inception Workshop agenda. ....	5
Figure 3. Questionnaire for validation of national stakeholders.....	6
Figure 4. Blank map of the Delta Coast. ....	7
Figure 5. Working Group .....	7
Figure 6. Final Workshop.....	16
Figure 7. Final Workshop agenda .....	17
Figure 8. Example of blank factsheet. Side 1.....	18
Figure 9. Example of blank factsheet. Side 2.....	19
Figure 10. Screenshot of the homepage of the website of the study. ....	30
Figure 11. Screenshot of the news section.....	30

## List of tables

Table 1. Summary of main features and problems identified by stakeholders.....	9
Table 2. Summary of future plans identified by stakeholder. ....	10
Table 3. Meetings for the collection of data and non-documented information.....	11
Table 4. Comments on diagnosis of CU01.....	20
Table 5. Comments on diagnosis of CU02.....	21
Table 6. Comments on diagnosis of CU03.....	21
Table 7. Comments on diagnosis of CU04.....	22
Table 8. Comments on diagnosis of CU06.....	22
Table 9. Comments on diagnosis of CU07.....	23
Table 10. Comments on diagnosis of CU08.....	24
Table 11. Comments on diagnosis of CU09.....	25
Table 12. Comments on diagnosis of CU10.....	25
Table 13. Comments on diagnosis of CU11.....	26
Table 14. Comments on diagnosis of CU12.....	26
Table 15. Comments on diagnosis of CU13.....	27
Table 16. Comments on diagnosis of CU14.....	28
Table 17. Inception Workshop – Attendance list. ....	33
Table 18. Final Workshop – Attendance list.....	52

## 1. INTRODUCTION

Stakeholder consultation is essential to involve coastal stakeholders into the management process. In this study, the objective of the consultation process is to obtain a shared understanding and ownership of the Key Issues that will lead upcoming coastal management stages.

Stakeholder consultation is a cross cutting task of the *ICZM Scoping Study*; that is, stakeholder knowledge has been integrated into all stages of the study.

This report describes the consultation process carried out and summarizes the contributions of stakeholders that have been included into Deliverable 5 “*Final Study Report*”. Consultation activities include the organization of workshops, meetings and the development of a website. This section describes these consultation activities, structured as follows:

- Section 1: Introduction; describes the structure of the document.
- Section 2: Inception Workshop, organized at the early stage of the study.
- Section 3: Individual meetings, arranged during the development of the study.
- Section 4: Final Workshop, organized at the final stage of the study.
- Section 5: Web site of the study.

## 2. INCEPTION WORKSHOP

The Inception Workshop was the first consultation activity of the *ICZM Scoping Study*. The objectives of this workshop were (i) to have a first contact with key stakeholders, (ii) to present the scope and activities of the study to them and (iii) to obtain their impressions and concerns about the major problems of the Northern Coast.



Figure 1. Inception Workshop.

The following figure shows the agenda of the workshop, held at Pyramisa Hotel in Cairo, on 17<sup>th</sup> August 2016.

ICZM IN EGYPT – A SCOPING STUDY



INCEPTION WORKSHOP

## INCEPTION WORKSHOP

### AGENDA

17<sup>th</sup> August 2016, Lotus Hall, Pyramiza Hotel, Dokki, Giza.

**9:00 – 10:00** Registration and coffee

**10:00 – 10:15:** Welcome speech – *Prof. Mohamed A. Motleb – National Project Director*

**10:15 – 10:30:** Background on ICZM in Egypt – *Dr Mohamed Bayoumi – UNDP project officer*

**10:30 – 11:00:** An Overview of the *Adaptation to Climate Change in the Nile Delta Project (ACCNDP)*.  
*Dr Mohamed Ahmed – Project Manager*

**11:00 – 11:15:** Questions and discussions

**11:15-11:45:** Introduction to the “ICZM in Egypt – a Scoping Study” project (rationale, objectives, data needs and anticipated results). *Dr. Raúl Medina, Project Manager.*

**11:45-12:30:** Coffee break

**12.30 -12:45:** Activities of the “ICZM in Egypt – a Scoping Study” project (description of tasks 1 and 2, oriented to stakeholder’s participation). *Mahmoud Fouad, Local coordinator.*

**12.45 -14:15:** Participatory activities. *Mahmoud Fouad, Local coordinator, and Maria Merino, ICZM expert.*

- Snowball exercise for stakeholder’s identification
- Identification of main coastal problems in the North Western, Nile Delta and North Eastern coasts.
- Identification of urban development and coastal plans
- Presentation of the web site

**14.15-15.15:** Questions and discussions

**15:15-15:30:** Conclusions and Closure. *Dr Mohamed A. Motleb – National Project Director*

**15:30:** Lunch



Figure 2. Inception Workshop agenda.

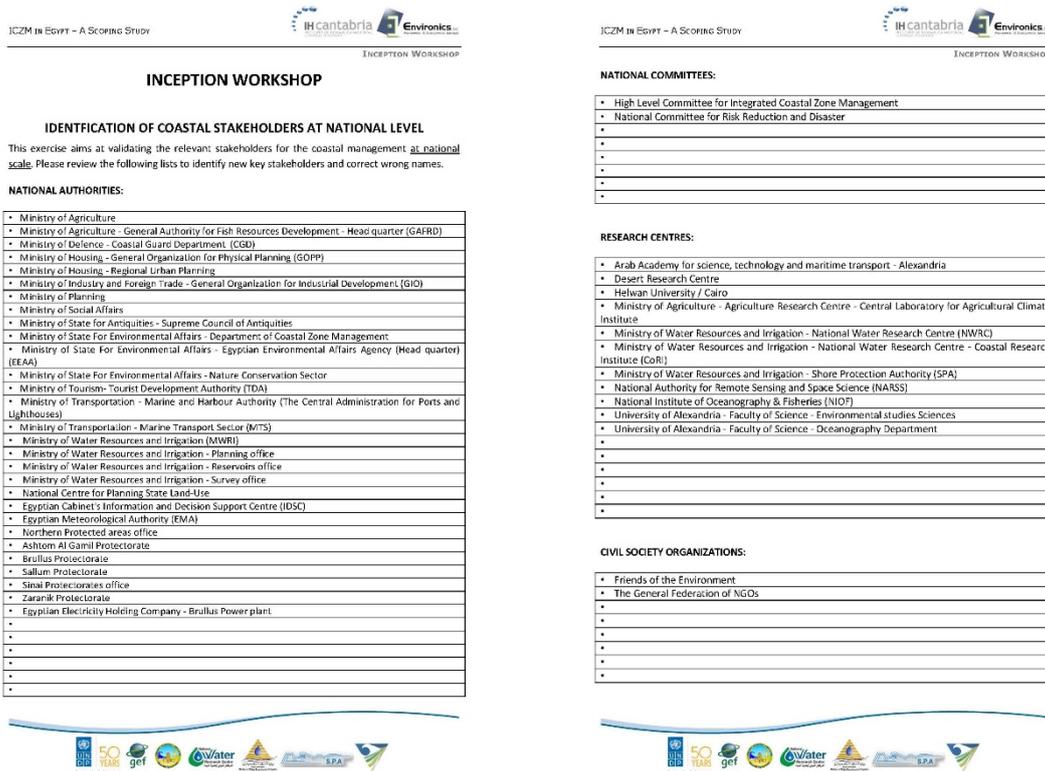
The workshop counted on the participation of 59 attendees (see Annex I), including representatives from institutions such as the MWRI, EEAA, Ministry of Housing, research centres and coastal governorates.

After presentation of the study, a set of participatory exercises were carried out in order to collect the suggestions and perceptions of stakeholders about the major problems of the Northern Coast of Egypt. Following sections describe (i) participatory activities developed and (ii) inputs obtained from stakeholders.

## 2.1. Participatory activities

The following participatory activities were carried out:

**1. Validation of the preliminary list of national stakeholders.** The objective of this activity was the validation of the preliminary list of stakeholders at national level. This activity was developed in working groups that fulfilled the following questionnaire:



The figure shows two questionnaire forms side-by-side. The left form is titled "INCEPTION WORKSHOP" and "IDENTIFICATION OF COASTAL STAKEHOLDERS AT NATIONAL LEVEL". It contains a list of "NATIONAL AUTHORITIES" including: Ministry of Agriculture, Ministry of Agriculture - General Authority for Fish Resources Development - Head quarter (GARFD), Ministry of Defence - Coastal Guard Department (CGD), Ministry of Housing - General Organization for Physical Planning (GOPP), Ministry of Housing - Regional Urban Planning, Ministry of Industry and Foreign Trade - General Organization for Industrial Development (GIO), Ministry of Planning, Ministry of Social Affairs, Ministry of State for Antiquities - Supreme Council of Antiquities, Ministry of State for Environmental Affairs - Department of Coastal Zone Management, Ministry of State For Environmental Affairs - Egyptian Environmental Affairs Agency (Head quarter) (EEAA), Ministry of State For Environmental Affairs - Nature Conservation Sector, Ministry of Tourism - Tourist Development Authority (TDA), Ministry of Transportation - Marine and Harbour Authority (The Central Administration for Ports and Lighthouses), Ministry of Transportation - Marine Transport Sector (MTS), Ministry of Water Resources and Irrigation (MWRRI), Ministry of Water Resources and Irrigation - Planning office, Ministry of Water Resources and Irrigation - Reservoirs office, Ministry of Water Resources and Irrigation - Survey office, National Centre for Planning State Land-Use, Egyptian Cabinet's Information and Decision Support Centre (IDSC), Egyptian Meteorological Authority (EMA), Northern Protected areas office, Ashmout Al Gamil Protectorate, Brullus Protectorate, Sallum Protectorate, Sinai Protectorates office, Zaranik Protectorate, and Egyptian Electricity Holding Company - Brullus Power plant. The right form is titled "NATIONAL COMMITTEES" and "RESEARCH CENTRES". It lists "NATIONAL COMMITTEES" including: High Level Committee for Integrated Coastal Zone Management and National Committee for Risk Reduction and Disaster. It lists "RESEARCH CENTRES" including: Arab Academy for science, technology and maritime transport - Alexandria, Desert Research Centre, Helwan University / Cairo, Ministry of Agriculture - Agriculture Research Centre - Central Laboratory for Agricultural Climate Institute, Ministry of Water Resources and Irrigation - National Water Research Centre (NWRC), Ministry of Water Resources and Irrigation - National Water Research Centre - Coastal Research Institute (CoRI), Ministry of Water Resources and Irrigation - Shore Protection Authority (SPA), National Authority for Remote Sensing and Space Science (NARSS), National Institute of Oceanography & Fisheries (NIOF), University of Alexandria - Faculty of Science - Environmental studies Sciences, and University of Alexandria - Faculty of Science - Oceanography Department. Both forms include "CIVIL SOCIETY ORGANIZATIONS" including: Friends of the Environment and The General Federation of NGOs. Both forms have a header with logos for UN, 50 YEARS, get, Water, and SPA.

Figure 3. Questionnaire for validation of national stakeholders.

This questionnaire is presented in Annex II.

**2. Identification of main coastal problems in the North-Western, Delta and North Sinai coasts.** The objective was to compile and register the perception of stakeholders regarding the main coastal problems. The Consultant designed a set of three blank maps (one for each coastal region), on which the working groups identified and located the main coastal problems. These problems were classified in three groups: physical, environmental and socioeconomic.



## 2.2. Inventory and synthesis of responses

Stakeholders actively participated in the participatory activities and provided useful information for the upcoming stages of the study.

Comments and ideas are summarised below:

**1. Validation of the preliminary list of national stakeholders.** Stakeholders identified new authorities and research centres, as well as clarified the institutional structure and hierarchy of national authorities. They also corrected the names and provided contact details of some stakeholders. With their inputs, the final list of stakeholders extended to 85 stakeholders: 4 international, 56 national and 25 local.

**2. Identification of main coastal problems in the North-Western, Delta and North Sinai coasts.** Stakeholders identified main coastal features and problems of the coastal area, summarized in table 1.

**3. Identification of urban development and coastal plans.** Stakeholders identified future urban, tourism and industrial development plans, presented in table 2. Some answers were illegible or are still under translation, so these results will be included in further reports.

**4. Presentation of the web site:** stakeholders agreed on structure and contents of the web site.

	<b>NORTH COAST</b>	<b>DELTA COAST</b>	<b>NORTH SINAI COAST</b>
<b>Physical problems</b>	<p>Erosion/sedimentation problems in El Sallum, Marsa Matruh, Fuka and El Alamin</p> <p>Dangerous rip currents in the area of El Alamin</p> <p>Flash floods along the coast (presence of wadis)</p> <p>No setbacks along the road</p>	<p>Existence of many coastal protection works along the coast</p> <p>Coastal erosion in Alexandria, Rosetta, east of Damietta</p> <p>Erosion and sedimentation along the delta</p> <p>Flooding of low lying areas</p> <p>Sedimentation in the Burullus inlet</p>	<p>Flash floods in El Arish</p> <p>Erosion in El Arish (groins)</p> <p>Sand dunes in El Arish</p> <p>Erosion problems in Manzala (SE) and east of Bardawil</p>
<b>Environmental problems</b>	<p>Areas of environmental interest in El Sallum bay (El Sallum protected area) and the Alamin wetland (El Obayet protected area).</p> <p>Water pollution in Marsa Matruh</p> <p>Pollution from resorts</p> <p>Disposal of sewage into wells in El Sallum</p> <p>Water harvesting for communities and resorts without environmental studies</p>	<p>Pollution of coastal waters: Abu Qir and Damietta</p> <p>Water pollution in lakes: Mariut (industrial outfalls), Idku (fishing farms), Burullus (agriculture and sewage) and Manzala</p> <p>Loss of lake area (Mariut, Idku, Burullus and Manzala)</p> <p>Salt water intrusion</p> <p>Siltation</p> <p>Increase of soil salinity</p> <p>Desertification</p> <p>Potential lack of fresh water</p> <p>Protected area in Burullus</p> <p>Overfishing in Burullus</p> <p>Loss of biodiversity in Manzala lake</p>	<p>Sewage and water pollution in Raffa</p> <p>Zaranik Protected area</p> <p>Good water quality in Bardawil lake</p> <p>Turtle nesting and bird migration</p> <p>Bird hunting</p> <p>Siltation in Bardawil and El Arish</p>
<b>Socioeconomic problems</b>	<p>Socioeconomic problems related to local communities (Bedouins) and with resources exploitation (fisheries and bird hunting)</p> <p>Unplanned development between El Alamein and Marsa Matruh</p> <p>Mine fields</p>	<p>High population density</p> <p>Development on low lying area</p> <p>Development on agricultural land</p> <p>Low health insurances</p> <p>Low fish quality</p> <p>Lack of fishing markets</p> <p>Insufficient income from agriculture and fishing activities in Damietta</p> <p>Investment and development in the area of Manzala</p>	<p>Fishing activities in Bardawil lake</p> <p>Low security</p> <p>Bedouin communities</p> <p>Fishing activities not supported by fishing ports</p> <p>Lack of economic activities</p> <p>Building on flooding paths</p> <p>Power station in El Arish</p>

Table 1. Summary of main features and problems identified by stakeholders during the Inception Workshop.

	<b>NORTH COAST</b>	<b>DELTA COAST</b>	<b>NORTH SINAI COAST</b>
Under study	<p>Fishing harbour promoted by GARFD in Marsa Matruh</p> <p>Industrial development and nuclear power plant in El Dabaa</p> <p>Tourism development between Marsa Matruh and Neguila</p> <p>Proposed protected area in Ras El Hekma</p> <p>Tourism development in Fuka</p> <p>Tourism development between El Dabba and El Alamein</p> <p>Tourism development in El Hammam area</p> <p>New city in El Alamein</p>	<p>New city in Mansura / Gamasa (under EIA)</p> <p>New city in the coastal stretch of Burullus</p> <p>Power plants in Burullus, Gamasa and in Manzala (SE)</p> <p>Coastal protection works along the delta</p> <p>Suez channel development center</p> <p>New touristic area in Port Said</p>	<p>Fishing port in North Sinai</p>
Approved	<p>Project for mines removal</p> <p>Coastal development in Marsa Matruh</p>	<p>Urban development in Alexandria</p> <p>Development around Idku lake</p> <p>Fishing farms in Rosetta</p> <p>New inlet in Rosetta</p> <p>Development around Burullus inlet</p> <p>Development around Ras El Bar inlet</p> <p>Development in the Manzala narrow strip and in Port Said</p> <p>Navigation project on Damietta branch (River Transportation Authority)</p> <p>Romond port for industrial uses</p> <p>Dredging in Burrulus inlet and lake</p> <p>Coastal protection works along the delta</p>	<p>Environmental plans in Bardawil</p> <p>Development in Bir El Abd: agriculture, housing and industry</p>

Table 2. Summary of future plans identified by stakeholders during the Inception Workshop.

### 3. INDIVIDUAL INTERVIEWS

The organization of interviews with stakeholders during the development of the study had two different objectives:

- to collect data and non-documented information about the Northern Coast, and
- to collect information about the legal and institutional framework for coastal management.

#### 3.1. Meetings for the collection of available data and non-documented information

During the first stages of the study, seven meetings were arranged (individually) with key stakeholders, as shown in the following table.

KEY STAKEHOLDER	DATE
EEAA	6 September, 2016
TDA	6 September, 2016
SPA	27 September, 2016
NIOF	29 September, 2016
GOPP	3 October, 2016
National Centre for Planning State Land Use	Contact by telephone and email
CoRI	5 October, 2016

Table 3. Meetings for the collection of data and non-documented information.

These interviews have a two-fold objective: (i) to understand the role of stakeholders and their collaborators at local level and (ii) data collection. Therefore, interviews had two different parts, briefly described in the following paragraphs. Specific contents and talking points followed the outline presented in Annex IV.

The first part of the interview aimed at understanding the role of the interviewee in ICZM processes, and identifying stakeholders relevant for the management of specific coastal units (local scale). This part of the meeting provided information about the organigram and human resources of institutions but stakeholders didn't identify new local stakeholders.

Then, the second part focused on identifying existing data, reports and development plans related to the Northern Coast, according to the "data needs list" (see Deliverable 1 "Inception Report"). Available data were collected to be integrated into a public data catalogue for coastal management (see Chapter 3, Deliverable 5, "Final Study Report"). Stakeholders provided the following documents and georeferenced data:

- Coastal management plans developed during last ten years.
- Future urban and tourism development plans.
- Reports about coastal characteristics and projects.
- Environmental guidelines.
- Satellite images.
- Georeferenced data of:
  - o Land-use.

- Administrative boundaries.
- Urban area.
- Protected areas.
- Historical sites.

### 3.2. Meetings for the analysis of legal and institutional framework

Interviewing key stakeholders was part of the legal and institutional analysis. Key targeted stakeholders have been selected to be interviewed within selected Governorates. The interviewees list has been selected depending on some criteria as; the interviewee should be a decision maker level, they should be representative to the agency or institute which has the right for management in the coastal zone. The list of interviewees included 20 entities on central, local and non-governmental levels as follow:

#### Central level:

- General Authority for Shore Protection (SPA) Alexandria branch
- General Authority for Shore Protection (SPA) Matrouh branch
- EEAA Behaira regional branch office
- EEAA West Delta regional branch office
- General Authority for Tourism Development (TDA)
- General Organization for Physical Planning (GOPP)
- General Authority for Fish Resources Development (GAFRD)
- Maritime Transport Sector (MTS)
- Port Said Ports Authority
- Suez Canal Economic Zone (SCZone)
- Egyptian Company for Black Sands (ECBS)

#### Local level

- Matrouh Governorate
- Alexandria Governorate
- Alexandria Governorate
- Behaira Governorate
- Kafr El-Sheikh Governorate
- Damietta Governorate
- Port Said Governorate

#### Non-governmental Organizations

- Friends of Environment Association (NGO)
- Saloum Fishermen Association (NGO)

No.	Stakeholder	Interviewee	Date
Central level			
1	General Authority for Shore Protection (SPA) Alexandria branch	Eng. Omayma Salama, Maintenance and Implementation General Department	24th November 2016
2	General Authority for Shore Protection (SPA) Matrouh branch	Eng. Ayman Arafa, Head of Maintenance and Implementation General Department	23th November 2016
3	EEAA Behaira regional branch office	Eng. Mohamed Mosaad, Head of Coastal Management Department	30th November 2016
4	EEAA West Delta regional branch office	Eng. Essam Hashem, Head of Coastal Management Department	24th November 2016
5	General Authority for Tourism Development (TDA)	Eng. Mohamed Rashad, General Manager for Environmental Assessment	20th February 2017
6	General Organization for Physical Planning (GOPP)	DR. Maha Fahim, Vice Chairman	18th January 2017
7	General Authority for Fish Resources Development (GAFRD)	Eng. Maher Sourial Shahata, General Manager of the Engineering Affairs	02nd February 2017
8	Maritime Transport Sector (MTS)	Eng. Samir Ahmed Khamis, Head of Central Department for Planning	12th February 2017
9	Port Said Ports Authority	Dr. Abd Elmoneam Hossny, Former Head of Ships Movement Department	05th December 2016
10	Suez Canal Economic Zone (SCZone)	Dr. Alaa Kotb, Senior Legal Advisor to the Chairman  Eng. Ahmed Atteya, Environment Department Manager  Ms. Maha Hasebou, Sustainability Manager	16th February 2017
11	Egyptian Company for Black Sands (ECBS)	General. Ashraf Sultan, Chairman	16th February 2017

Local level			
12	Matrouh Governorate	Eng. Alaa Abd Elshakour, Under Secretary Mr. Taher Moftah, Head of Environment Management Unit	23th November 2016
13	Alexandria Governorate	General. Ahmed Hegazy, Head of Central Department for Tourism (Housing and Utilities Directorate) Mr. Alaa El-Din Abdu Allah, (Housing and Utilities Directorate) General. Osama Ismail, General Inspector of Shores (Housing and Utilities Directorate)	12th February 2017
14	Alexandria Governorate	Eng. Assem Ossman, General Department for Environmental Affairs, (Housing and Utilities Directorate)	24th November 2016
15	Behaira Governorate	Eng. Magdy Dabeas, Head of Environmental Management Unit	30th November 2016
16	Kafr El-Sheikh Governorate	General. El-Ssayed Nasr, Governor Eng. Radi Ahmed Amin, Secretary-general Mr. Fayed El-Shamly, Director of El Burullus Protectorate	07th February 2017
17	Damietta Governorate	General. Sami Abdel Aziz, Secretary-general	15th February 2017
18	Port Said Governorate	General. Adel El Ghadban, Governor Head of Urban Planning General Manager of Environment Affairs Heads of Districts and Port Fouad city General Manager of Shores Protection for Eastern of Delta (SPA)	13th February 2017
Non-governmental Organizations			
19	Friends of Environment Association (NGO)	Dr. Samia Masoud, Member of Board Directors	23th November 2016
20	Saloum Fishermen Association (NGO)	Mr. Mahmoud Elatressy, Chairman	23th November 2016

Interviews have revealed the need to increase awareness of the definition of the coastal zone. Although the latest amendments of the Environment Law provide a clear definition, it did not trickle down to practical applications, and thus is not in the scope of the interviewees direct interest.

Most interviewees in the coastal governorates are not aware of the executive regulations of the environment law which stated that each governorate should establish a local committee for ICZM. This is to be expected, as a direct result of the dormant status of the NCICZM, of which the majority of the regional executive interviewees are also not aware. The specific role of the NCICZM in terms of policy and strategies is also not clear to all interviewees. More than one suggested that it is merged with the Licenses Supreme Committee (LSC), based on the presumed similarity of tasks and objectives. The raising of the LSC membership to ministerial level increases this confusion.

It was often mentioned in interviews, the multiplicity of actors affects the potential achievement of coordinated actions in the coastal zone, especially as related to the multiple land jurisdictions (governorate, Military, agriculture reform, TDA, EEAA, etc.).

Despite of none of the interviewees has considered the centralization of functions in a single agency as a proposed approach of choice in Egypt, SCZone was authority of a different nature that applies the centralization approach. It works under law No. 83 in 2002. They apply the centralization approach to coordinated actions as all relevant laws are implemented by SCZone in its designated geographic scope, also SCZone is affiliated directly to the prime minister which gives additional power to its decisions and overcoming the obstacles.

Also It was clear through the interviews with the stakeholders and number if representative coastal governorates that, there is no legal or administrative differences between governorates where all of them working under one legal and institutional framework mainly the local administration law and the other specialized regulations.

#### 4. FINAL WORKSHOP

The Final Workshop was the last consultation activity of the *ICZM Scoping Study*. The objectives of this workshop were (i) to present the major results of the study, and (ii) to validate them with coastal stakeholders.



Figure 6. Final Workshop.

The following figure shows the agenda of the workshop, held at Conrad Hotel in Cairo, on 5<sup>th</sup> January 2017.

## FINAL WORKSHOP

### AGENDA

5<sup>th</sup> January 2017, Conrad Hotel, Cairo

9:00 – 9:30	Registration and coffee
9:30 – 9:35	Welcome note
9:35 – 10:00	An overview of the <b>Adaptation to Climate Change in the Nile Delta Through Integrated Coastal Zone Management Project (ACCNDP)</b>
10:00 – 10:30	Distinguished guest reflections on the project activities
10:30 - 11:30	Presentation of results of the ICZM Scoping Study. <i>Dr Raúl Medina – IH Cantabria</i>
11:30 -12:00	<b>COFFEE BREAK</b>
12:00 – 12:30	Factsheets validation and discussions
12:30 - 13:30	Presentation of the GeoViewer and the ICZM Catalogue. <i>Dr. Raúl Medina and Felipe Maza – IH Cantabria</i>
13:30 - 14:00	Future stages for establishing ICZM in the Northern Coast. Stakeholder validation. <i>Dr. Raúl Medina and María Merino – IH Cantabria</i>
14:00 - 14:30	Questions and discussions
14:30 - 14:45	Conclusions and Closure
14:45	<b>LUNCH</b>



Figure 7. Final Workshop agenda.

The workshop counted on the participation of 120 attendees (see Annex III), including representatives from different institutions such as the MWRI, EEAA, Ministry of Housing, research centres and coastal governorates.

After a preliminary presentation of the results of ACCNDP (Adaptation to Climate Change in the Nile Delta through Integrated Coastal Zone Management Project) and the encouraging words of relevant stakeholders as the Minister of Water Resources and Irrigation and Governors, the Consultant presented the major results of the *ICZM Scoping Study*, including physical, environmental and legal Key Issues for coastal management. The ICZM GeoViewer developed under Task 1 was also presented during this workshop.

Finally, a participatory activity was organized in order to validate the results with attendees. This activity and comments and suggestions proposed by stakeholders are presented in the following sections.





<p><b>COASTAL UNIT 1, SALLUM</b></p> <p><b>SOCIOECONOMIC DIAGNOSIS</b></p> <p>Fishermen are most important stakeholders in this unit; however there is only one military port with a small fishing dock. Two or three more harbors are required to manage the fishing process and to get the most commercial exploitation.</p> <p>There is no tourism activity due to the military danger, so tourism investment should focus on other Coastal Units.</p> <p>90% of local community work on hunting migratory birds.</p> <p>30% of workforce from other areas / cities.</p> <p>Poor community, in comparison with other west areas.</p> <p><b>PLANS AND PROJECTS</b></p> <p><b>Existing studies</b></p> <p>Socioeconomic studies carried out in 2014.</p> <p>No available data.</p> <p><b>Future development plans</b></p> <p>Fishing farming project between Barrani and Sallum.</p> <p><b>LOCAL STAKEHOLDERS</b></p> <p>General Authority for Fish Resources Development (already included)</p> <p><b>ECOLOGICAL DIAGNOSIS</b></p> <p>Removing sand from beaches and use it as construction materials (The activity was stopped through the aid of the protectorate administration and the city council)</p> <p><b>PHYSICAL DIAGNOSIS</b></p> <p>Soft structures suggested to deal with low or medium rates of erosion; no need of hard structures that would affect sediment transportation rates.</p> <p>Flash floods affects the coastal road and limits movement in the area</p> <p><b>SWOT ANALYSIS</b></p> <p><b>Strengths</b></p> <p>Protected area declared years ago.</p> <p><b>Weaknesses</b></p> <p>No infrastructure for tourism.</p> <p><b>Threats</b></p> <p>Extreme hunting of some birds species</p> <p>Extreme hunting of fish using destructive materials/ equipment</p> <p><b>KEY ISSUES FOR COASTAL MANAGEMENT</b></p> <p>Military importance, but not commercial.</p> <p>Need to stop smuggling.</p> <p>There was never any implemented plans for environmental management.</p> <p>Executive bodies are not contributing in making and implementing the coastal management plan for the region.</p>
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Table 4. Comments on diagnosis of CU01.

<p><b>COASTAL UNIT 2, NEGUILA</b></p> <p><b>SOCIOECONOMIC DIAGNOSIS</b></p>
<p><b>PLANS AND PROJECTS</b></p> <p><b>Existing studies</b></p> <p><b>Future development plans</b></p>
<p><b>LOCAL STAKEHOLDERS</b></p>

<b>ECOLOGICAL DIAGNOSIS</b>
<b>PHYSICAL DIAGNOSIS</b> Impacts of SST Miss detailed information (can be found in Annexes)
<b>SWOT ANALYSIS</b>
<b>KEY ISSUES FOR COASTAL MANAGEMENT</b>

Table 5. Comments on diagnosis of CU02.

<b>COASTAL UNIT 3, MARSA MATRUH</b>
<b>SOCIOECONOMIC DIAGNOSIS</b> Low production of economic activities No feeling of poor community. No GIS information about industries. Lack of specific data about tourism economic activity.
<b>PLANS AND PROJECTS</b> Existing studies  Future development plans
<b>LOCAL STAKEHOLDERS</b>
<b>ECOLOGICAL DIAGNOSIS</b>
<b>PHYSICAL DIAGNOSIS</b>
<b>SWOT ANALYSIS</b>
<b>KEY ISSUES FOR COASTAL MANAGEMENT</b>

Table 6. Comments on diagnosis of CU03.

<b>COASTAL UNIT 4, ALMAZA</b>
<b>SOCIOECONOMIC DIAGNOSIS</b> Need to assess the environmental impacts of tourism development on fisheries and the natural environment.
<b>PLANS AND PROJECTS</b> Existing studies  Future development plans Fishing port
<b>LOCAL STAKEHOLDERS</b>
<b>ECOLOGICAL DIAGNOSIS</b>
<b>PHYSICAL DIAGNOSIS</b>
<b>SWOT ANALYSIS</b>

<p><b>Strengths</b> High rates of precipitation</p> <p><b>Weaknesses</b></p> <p><b>Opportunities</b> Rainfall harvesting projects, valuable for agriculture and urban development</p> <p><b>Threats</b></p>
<p><b>KEY ISSUES FOR COASTAL MANAGEMENT</b></p>

Table 7. Comments on diagnosis of CU04.

<p><b>COASTAL UNIT 6, ALAMEIN</b></p>
<p><b>SOCIOECONOMIC DIAGNOSIS</b></p>
<p><b>PLANS AND PROJECTS</b> <b>Existing studies</b></p> <p><b>Future development plans</b> MWRI implements a rain-fed agriculture project with 250 ground storage tanks of 100 m3 to be used in the no rain season.</p>
<p><b>LOCAL STAKEHOLDERS</b> Local tribes and communities are very important in this area.</p>
<p><b>ECOLOGICAL DIAGNOSIS</b> Agriculture and grazing decrease water availability for natural areas.</p>
<p><b>PHYSICAL DIAGNOSIS</b> Change in rainfall, intensity and frequency along this unit.</p>
<p><b>SWOT ANALYSIS</b> <b>Strengths</b> Fish resources</p> <p><b>Weaknesses</b></p> <p><b>Opportunities</b> Increased protected area</p> <p><b>Threats</b></p>
<p><b>KEY ISSUES FOR COASTAL MANAGEMENT</b> Long term plans should take into consideration all development issues, as wadi system.</p>

Table 8. Comments on diagnosis of CU06.

<p><b>COASTAL UNIT 7, ALEXANDRIA</b></p>
<p><b>SOCIOECONOMIC DIAGNOSIS</b></p>
<p><b>PLANS AND PROJECTS</b> <b>Existing studies</b> Environmental implementation plan in Alexandria Governorate (EAA)</p> <p><b>Future development plans</b></p>
<p><b>LOCAL STAKEHOLDERS</b> Integrated coastal zone management commission in Alexandria (pending of establishment)</p>
<p><b>ECOLOGICAL DIAGNOSIS</b></p>

<p>Current impact and threats:</p> <ul style="list-style-type: none"> <li>• Extreme fishing and catching very small fish during the spawning season due to the usage of small meshed nets.</li> <li>• Pollution from inland and river ports activities</li> <li>• Accidental oil pollution from petroleum ports</li> </ul>
<b>PHYSICAL DIAGNOSIS</b>
<p><b>SWOT ANALYSIS</b></p> <p><b>Strengths</b> Four ports: two commercial, two petroleum ports and fishing port.</p> <p><b>Weaknesses</b> Loss of fisheries stocks</p> <p><b>Opportunities</b></p> <p><b>Threats</b></p>
<b>KEY ISSUES FOR COASTAL MANAGEMENT</b>

Table 9. Comments on diagnosis of CU07.

<b>COASTAL UNIT 8, BEHEIRA</b>
<p><b>SOCIOECONOMIC DIAGNOSIS</b></p> <p>Enhancing the lifestyle of fishermen and their families through:</p> <ul style="list-style-type: none"> <li>• Inland water purification/treatment/rehabilitation and increasing the size of free fishing</li> <li>• Educating and guiding fisherman in order to increase their awareness on environmental problems</li> </ul>
<p><b>PLANS AND PROJECTS</b></p> <p><b>Existing studies</b></p> <p><b>Future development plans</b></p>
<b>LOCAL STAKEHOLDERS</b>
<b>ECOLOGICAL DIAGNOSIS</b>
<p><b>PHYSICAL DIAGNOSIS</b></p> <p>Water in Lake Idku and Boughaz due to the presence of sanitarian drainage at Boughaz</p>
<p><b>SWOT ANALYSIS</b></p> <p><b>Strengths</b></p> <p><b>Weaknesses</b> Reduced area and sedimentation of Lake Idku. Pollution in Lake Idku from agriculture drains, industrial activities and untreated sewage. Petrol and gas company and environmental pollution. Sanitarian drainage as well as industrial drainage.</p> <p><b>Opportunities</b> Developing lake Idku through rehabilitating Boughaz , channeling, dredging to reach a water depth of 2 meters</p> <p><b>Threats</b> Loss of lake due to shrinking and sedimentation.</p>

<p>Loss of biodiversity in Lake Idku. Loss of free catching area in the lake.</p>
<p><b>KEY ISSUES FOR COASTAL MANAGEMENT</b></p> <p>The negative impacts of the Western delta projects (western delta group) on the lake and their effects on the managing and developing plans of the General Authority for Fish Resources Development and their direct effects on the lake ecosystem.</p> <p>The impact of the western delta projects on the water depth of the lake whether increasing or decreasing.</p> <p>Pollution caused from activities close to the lake such as factories or oil companies.</p>

Table 10. Comments on diagnosis of CU08.

<p><b>COASTAL UNIT 9, BURULLUS</b></p>
<p><b>SOCIOECONOMIC DIAGNOSIS</b></p>
<p><b>PLANS AND PROJECTS</b></p> <p><b>Existing studies</b></p> <p>“BURULLUS LAKE”, 2002, Medwet Coast (not found)</p> <p>Ebrahim M. Eid a, *, Kamal H. Shaltout, 2013. Evaluation of carbon sequestration potentiality of Lake Burullus, Egypt to mitigate climate change. <a href="http://dx.doi.org/10.1016/j.ejar.2013.04.002">http://dx.doi.org/10.1016/j.ejar.2013.04.002</a></p> <p><b>Future development plans</b></p>
<p><b>LOCAL STAKEHOLDERS</b></p>
<p><b>ECOLOGICAL DIAGNOSIS</b></p>
<p><b>PHYSICAL DIAGNOSIS</b></p>
<p><b>SWOT ANALYSIS</b></p> <p><b>Strengths</b></p> <p>Job opportunities for local communities. Regular dredging and seawater coming from inlet.</p> <p><b>Weaknesses</b></p> <p>Lack of transportation and market facilities. Lack of tourism facilities. Lack of investment of small projects for local communities. Insufficient NGO activities for local communities. Irregular income along the year. Need for alternatives for fishermen in banning months. Lack of security. Lack of sewage and solid waste management facilities in villages.</p> <p><b>Opportunities</b></p> <p>Salt extraction. Eco-tourism. Managed aquaculture. Good transportation infrastructures for industries. Medical and boil plants. Added income increasing women capacity.</p> <p><b>Threats</b></p> <p>Increase discharges in the lake. Increasing water plant affect fishing area.</p>
<p><b>KEY ISSUES FOR COASTAL MANAGEMENT</b></p>

Table 11. Comments on diagnosis of CU09.

<b>COASTAL UNIT 10, BALTIM</b>
<b>SOCIOECONOMIC DIAGNOSIS</b> New activities can positively affect people, as tourism development, but they should consider traditional activities and ways of life to not affect the coastal life.
<b>PLANS AND PROJECTS</b> <b>Existing studies</b> <b>Future development plans</b>
<b>LOCAL STAKEHOLDERS</b> EEAA Middle Delta Region, Tanta RBO office instead of EEAA East Delta region
<b>ECOLOGICAL DIAGNOSIS</b>
<b>PHYSICAL DIAGNOSIS</b> Relationship between places with high erosion and places with high sedimentation.
<b>SWOT ANALYSIS</b> <b>Strengths</b> <b>Weaknesses</b> <b>Opportunities</b> Sustainable fishing development Development of Burullus port. <b>Threats</b>
<b>KEY ISSUES FOR COASTAL MANAGEMENT</b>

Table 12. Comments on diagnosis of CU10.

<b>COASTAL UNIT 11, DAMIETTA</b>
<b>SOCIOECONOMIC DIAGNOSIS</b> Proposed furniture industrial city, opening in June 2017. Upgrade medical infrastructures such as private clinics and ambulance
<b>PLANS AND PROJECTS</b> <b>Existing studies</b> Exploration and evaluation of sediment dredged from harbors..., also developed by the Nuclear Materials Authority. Updated by the paper published by CoRI in 2016 (Compatibility Analysis of Dredged Sediments from Routine Pathways and Maintenance of Harbor's Channels for Reuse in Nearshore Nourishment in the Nile Delta, Egypt) <b>Future development plans</b>
<b>LOCAL STAKEHOLDERS</b> Nuclear Materials Authority (nma.egypt@yahoo.es)
<b>ECOLOGICAL DIAGNOSIS</b>
<b>PHYSICAL DIAGNOSIS</b>
<b>SWOT ANALYSIS</b> <b>Strengths</b> <b>Weaknesses</b> <b>Opportunities</b> <b>Threats</b>

<b>KEY ISSUES FOR COASTAL MANAGEMENT</b>
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Table 13. Comments on diagnosis of CU11.

<b>COASTAL UNIT 12, PORT SAID</b>
<b>SOCIOECONOMIC DIAGNOSIS</b> Making Port Said a free zone city (tax free city) as it was previously, so they do not need to pay taxes
<b>PLANS AND PROJECTS</b> <b>Existing studies</b> <b>Future development plans</b> Port Said city development
<b>LOCAL STAKEHOLDERS</b> Executive authority of Port Said governorate Civil societies such as NGOs and syndicates
<b>ECOLOGICAL DIAGNOSIS</b>
<b>PHYSICAL DIAGNOSIS</b>
<b>SWOT ANALYSIS</b> <b>Strengths</b> There are three monitoring location for the beach and monitoring is done by the EEAA <b>Weaknesses</b> The beach of Port Said governorate does not have sanitary drainage nor industrial nor agricultural <b>Opportunities</b> <b>Threats</b>
<b>KEY ISSUES FOR COASTAL MANAGEMENT</b>

Table 14. Comments on diagnosis of CU12.

<b>COASTAL UNIT 13, BARDAWIL</b>
<b>SOCIOECONOMIC DIAGNOSIS</b> Need of data to assess the variation in coastal management activities and the impacts and relationships between human activities and effective stresses on local society.
<b>PLANS AND PROJECTS</b> <b>Existing studies</b> Need of studies about stakeholder investment and crop pattern. <b>Future development plans</b> Local experience should be integrated into the identification of current needs and issues.
<b>LOCAL STAKEHOLDERS</b> Neighbor countries
<b>ECOLOGICAL DIAGNOSIS</b> Need of data related to gas extraction and its effect on coastal processes, as subsidence, and on other activities.
<b>PHYSICAL DIAGNOSIS</b> Protection works should be studied in integrated manner.
<b>SWOT ANALYSIS</b> <b>Strengths</b>

<p><b>Weaknesses</b>  <b>Opportunities</b>  <b>Threats</b></p>
<p><b>KEY ISSUES FOR COASTAL MANAGEMENT</b>          Data analysis is between data collection and data analysis.</p>

Table 15. Comments on diagnosis of CU13.

<p><b>COASTAL UNIT 14, ARISH</b></p>
<p><b>SOCIOECONOMIC DIAGNOSIS</b>          Tourism is an economic activity in this unit          Available updated census information (not found)          Need to understand the basis of Rafah new industrial zone          Long term plan will increase existing problems.</p>
<p><b>PLANS AND PROJECTS</b>  <b>Existing studies</b></p> <p><b>Future development plans</b></p>
<p><b>LOCAL STAKEHOLDERS</b></p>
<p><b>ECOLOGICAL DIAGNOSIS</b></p> <ul style="list-style-type: none"> <li>- Invasive species and wildlife should be detailed:              The most serious and prevalent invasive species is the Water Hyacinth (<i>Eichhornia crassipes</i>), which was originally introduced into Egypt from South America. Water Hyacinth represents one of the most serious environmental problems threatening the Delta lakes and irrigation canals and drains. Agriculture and urbanization are also responsible of the spreading of alien species such as rodents, feral dogs and cats which compete for food resources with native species and may affect threatened species.</li> <li>- Examples of hunting and commercial exploitation of wildlife  <b>Bird trapping</b>              Bird trapping takes place from late August to early September primarily along the Mediterranean coast. Quail (<i>Coturnix coturnix</i>) is one of the main target species of autumn bird hunting, but all species of bird including the Corncrake, song birds and birds of prey are trapped. In North Sinai, where 500 families are involved in quail netting every season, the activity has probably a most economic value compared with the other netting areas in Egypt. Small birds are trapped accidentally as non-target birds in the trammel quail nets (Shaltout and Khalil, 2006).</li> </ul> <p>Trapping birds of prey is also practiced along the Mediterranean Coast of Sinai. North Sinai with its position on the major migration routes is considered as one of the best areas in Egypt, if not in the whole Middle East, to trap falcons. The trapping season lasts approximately 45 days during October and November (Baha El Din and Salama 1991 in Shaltout and Khalil, 2006). Large falcons are the main target of this activity, such as Lanner (<i>Falco biarmicus</i>), Saker (<i>Falco cherrug</i>), and Peregrine (<i>Falco peregrinus</i>), the latter species is the most demanded and valued by the rich falconers from the Arab Gulf States (Shaltout and Khalil, 2006).</p> <p><b>Rain-fed agriculture and economic uses</b>          There are two types of agricultural activities in the North Sinai region, the traditional and the modern farming method. The traditional method is practiced in rain-fed catchment areas, where wheat, corn and barley crops are grown. These crops depend on good rainfall during the winter months to sustain a high yield. In summer, watermelon is usually grown. During the season, these</p>

<p>traditional crops do not require much labor, except in land preparation and seed planting.</p> <p>The date palm is still an important source of food and income. Goats are fed on them and date palm by-products are used for housing construction, weaving and handicraft production. It is stated that the average nuclear family has three trees, while an average household owns 10 trees of which 6 are devoted purely for (date) food collection.</p> <p><b>Pasturing</b> Ownership of camels and size of goat and sheep flocks traditionally assess wealth of individual Bedouin tribe members. Today, the economic reliance on livestock is waning. While they are still important in the economy of tribes, the livestock and grazing practices have been superseded by agricultural activities.</p> <p>Camels are very important in Bedouin custom as a means of assessing status. The male members of the tribes practice grazing of camels, as it often requires many days out in the remote grazing areas. Camels are still used for transportation in the collection of dates in the remote inaccessible areas. The Bedouin tribes in the western area (Rabaa, Om Aqba and Katya) and central regions of Sinai, which are still essentially semi-nomadic, continue to depend on camels as a source of wealth and income. In general, however, camel rearing, particularly in the settled regions, has declined rapidly as cars and small trucks have replaced their practical use.</p> <ul style="list-style-type: none"> <li>- Future protected areas according Future plan for protected areas in North Sinai: According to the future protectorates’ map produced by the EEAA, there two proposed protectorates in North Sinai (El Maghara and El Qusseyma), but they are not in the coastal area. This layer was not provided by stakeholders.</li> <li>- It is necessary to assess the effect of new projects on marine life.</li> <li>- Describing life and types of species that are affected by environmental and meteorological changes in the area.</li> </ul>
<p><b>PHYSICAL DIAGNOSIS</b></p>
<p><b>SWOT ANALYSIS</b></p> <p><b>Strengths</b></p> <p><b>Weaknesses</b> No need for fishing boats No studies supporting the potential for fisheries and marine resources exploitation. Low importance of biodiversity.</p> <p><b>Opportunities</b> El Arish port needs to be improved. Weak tourism development.</p> <p><b>Threats</b></p>
<p><b>KEY ISSUES FOR COASTAL MANAGEMENT</b></p>

Table 16. Comments on diagnosis of CU14.

## 5. WEB SITE OF THE ICZM SCOPING STUDY

Dissemination and consultation activities have been also performed through the study website (<http://iczmegypt.ihcantabria.com/>). The website has three main objectives:

- Description of the study and publication of results.
- Raising awareness about the benefits of ICZM.
- Two-way communication with coastal stakeholders.

According to these objectives, the information is structured into three sections, as shown in the following figure:

- THE STUDY
  - Description of the study
  - Study activities and results.
- RAISING AWARENESS
  - Related links
  - Latest news
- PUBLIC PARTICIPATION
  - Forum
  - Contact us

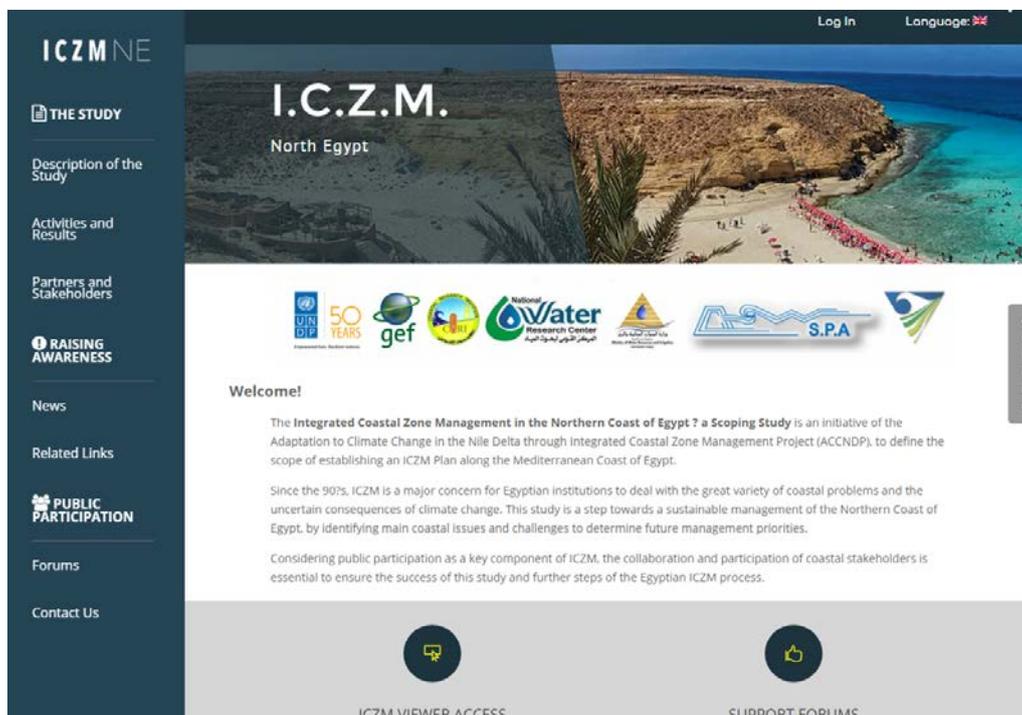


Figure 10. Screenshot of the homepage of the website of the study.

Reports produced during the *ICZM Scoping Study* have been published in the “Activities and Results” section. Stakeholders were specifically informed about the publication of Deliverable 4 “*Draft Final Study Report*” and were invited to send their comments and suggestions through the public forum or through email.

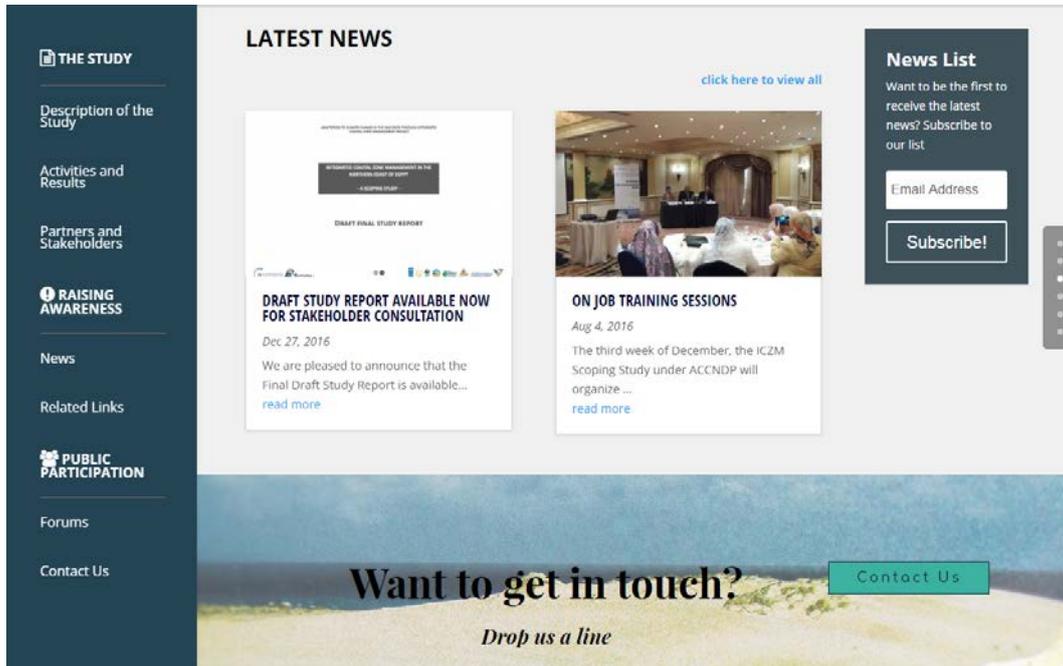


Figure 11. Screenshot of the news section.

**ANNEX I: INCEPTION WORKSHOP - ATTENDANCE LIST**

	NAME	INSTITUTION	DEPARTMENT
1	Mohamed Ahmed	ACCNDP	
2	Mohamed Seliem	ACCNDP	
3	Marwa Ramadan Hafez	Alexandria Governorate	
4	Prof. Hanan Mitwally M. Mitwally	Alexandria University	Oceanography Department
5	Magdy Zakria	Beheira Governorate	Environment office
6	Magdy D. Abaas	Beheira Governorate	
7	Basem Ahmed Rabia	Egyptian Environmental Affairs Agency	Nature Conservation Sector - Zaranik Protected Area
8	Khaled Kheireldin	Egyptian Environmental Affairs Agency	Climate Change Department
9	Omniah Hegazy	Egyptian Environmental Affairs Agency	Climate Change Department
10	Noha Samy	Egyptian Environmental Affairs Agency	ICZM Department
11	Mohamed Besar	Egyptian Environmental Affairs Agency	Nature Conservation Sector
12	Tamer Kamal	Egyptian Environmental Affairs Agency	Nature Conservation Sector
13	Dr. Ahmed Aboulwafa	Egyptian Environmental Affairs Agency	Sharkia Regional Branch Office
14	Wafaa Abdel Sahfy Attia	Egyptian Environmental Affairs Agency	Sharkia Regional Branch Office
15	Halla Ali Elsayed Hamdalla	Egyptian Environmental Affairs Agency	Suez Regional Branch Office
16	Mahmoud Refaat	Egyptian Environmental Affairs Agency	Suez Regional Branch Office
17	Mohamed Gamal Eldin	Egyptian Environmental Affairs Agency	Tanta Regional Branch Office
18	Dr. Abdalla Eliwa	Egyptian Environmental Affairs Agency	
19	Eman Mohamed Zahir	Egyptian Environmental Affairs Agency	
20	Eng. Ahmed Nasser El-Said	Egyptian Environmental Affairs Agency	
21	Miral Selim	Embassy of Netherland	
22	Dr. Nagwan Sheha	Information and Decision Support Center	
23	Dr. Samy Saad	Information and Decision Support Center	
24	Omiyma Hafny Mohamed	Isamaillia Governorarte	
25	Dr. Ashraf Elabd	Japan International Cooperation Agency	
26	Fayed Ibrahim Elshamly	Kafr Elshikh Government	Environment office (Burullus lake)
27	Maha Shalaby	Maritime Transport Sector	

28	Nancy Raouf	Minister of Housing	Technical Office
29	Raghdaa Eissa	Minister of Housing	Technical Office
30	Maher Sourial	Ministry of Agriculture	General Authority for Fish Resources Development
31	Mona Habib	Ministry of Agriculture	General Authority for Fish Resources Development
32	Dr. Mohamed Ismail	Ministry of Environment	
33	Asmaa El-Sayed Ghanem	Ministry of Water Resources and Irrigation	Coastal Research Institute (CoRI)
34	Medhat Abd El Mohsen	Ministry of Water Resources and Irrigation	Coastal Research Institute (CoRI)
35	Mohamed Soliman	Ministry of Water Resources and Irrigation	Coastal Research Institute (CoRI)
36	Moheb Mina Iskander	Ministry of Water Resources and Irrigation	Coastal Research Institute (CoRI)
37	Omnia Mahmoud Abd Elrahman	Ministry of Water Resources and Irrigation	Coastal Research Institute (CoRI)
38	Alaa Hassan	Ministry of Water Resources and Irrigation	Groundwater Sector
39	Dr. Abdel Hamed Abdel Hak Khater	Ministry of Water Resources and Irrigation	Hydraulics Research Institute
40	Dr. Ghada Haggag	Ministry of Water Resources and Irrigation	National Water Research Institute
41	Dr. Mohamed A. Motaleb	Ministry of Water Resources and Irrigation	National Water Research Institute
42	Maryan M. Mostafa	Ministry of Water Resources and Irrigation	National Water Research Institute - Central laboratory for environmental quality monitoring
43	Hossam M. Ibrahim	Ministry of Water Resources and Irrigation	National Water Research Institute - Channel maintenance research
44	Mohamed Anwar	Ministry of Water Resources and Irrigation	National Water Research Institute - CRI
45	Samir Abdel-Rahman	Ministry of Water Resources and Irrigation	National Water Research Institute - Mechanical and Electrical Research Institute
46	Marwa Khattab	Ministry of Water Resources and Irrigation	Nile Water Sector
47	Ahmed Fathy	Ministry of Water Resources and Irrigation	Shore Protection Authority
48	Hoda Faisal Mohamed	Ministry of Water Resources and Irrigation	Survey Research Institute
49	Doaa Mohamed Amin	Ministry of Water Resources and Irrigation	Water Resources Research Centre
50	Eman Ahmed	Ministry of Water Resources and Irrigation	Water Resources Research Centre
51	Hesham Mostafa	Ministry of Water Resources and Irrigation	Water Resources Research Centre
52	Karima Attia	Ministry of Water Resources and Irrigation	Water Resources Research Centre
53	Dr Amany Abdel Mageed	National Centre for Planning State Lands Usage	
54	Ashraf Elazab	Nuclear Material Authority	

55	Hesham El Nahas	Nuclear Material Authority	
56	Eng. Walaa Eldin Salah	Planning sector	
57	Ayman Mattar	Port Said Governorate	General Directorate of Environmental Affairs
58	Dr. Amr Abd Elgawad	Tourism Development Authority	
59	Marwa Gragery		

Table 17. Inception Workshop – Attendance list.

## ANNEX II: QUESTIONNAIRE TO VALIDATE THE LIST OF NATIONAL STAKEHOLDERS

### IDENTIFICATION OF COASTAL STAKEHOLDERS AT NATIONAL LEVEL

This exercise aims at validating the relevant stakeholders for the coastal management at national scale. Please review the following lists to identify new key stakeholders and correct wrong names.

#### NATIONAL AUTHORITIES:

• Ministry of Agriculture
• Ministry of Agriculture - General Authority for Fish Resources Development - Head quarter (GAFRD)
• Ministry of Defence - Coastal Guard Department (CGD)
• Ministry of Housing - General Organization for Physical Planning (GOPP)
• Ministry of Housing - Regional Urban Planning
• Ministry of Industry and Foreign Trade - General Organization for Industrial Development (GIO)
• Ministry of Planning
• Ministry of Social Affairs
• Ministry of State for Antiquities - Supreme Council of Antiquities
• Ministry of State For Environmental Affairs - Department of Coastal Zone Management
• Ministry of State For Environmental Affairs - Egyptian Environmental Affairs Agency (Head quarter) (EEAA)
• Ministry of State For Environmental Affairs - Nature Conservation Sector
• Ministry of Tourism- Tourist Development Authority (TDA)
• Ministry of Transportation - Marine and Harbour Authority (The Central Administration for Ports and Lighthouses)
• Ministry of Transportation - Marine Transport Sector (MTS)
• Ministry of Water Resources and Irrigation (MWRI)
• Ministry of Water Resources and Irrigation - Planning office
• Ministry of Water Resources and Irrigation - Reservoirs office
• Ministry of Water Resources and Irrigation - Survey office
• National Centre for Planning State Land-Use
• Egyptian Cabinet's Information and Decision Support Centre (IDSC)
• Egyptian Meteorological Authority (EMA)
• Northern Protected areas office
• Ashtom Al Gamil Protectorate
• Brullus Protectorate
• Sallum Protectorate
• Sinai Protectorates office
• Zaranik Protectorate
• Egyptian Electricity Holding Company - Brullus Power plant
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**NATIONAL COMMITTEES:**

• High Level Committee for Integrated Coastal Zone Management
• National Committee for Risk Reduction and Disaster
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**RESEARCH CENTRES:**

• Arab Academy for science, technology and maritime transport - Alexandria
• Desert Research Centre
• Helwan University / Cairo
• Ministry of Agriculture - Agriculture Research Centre - Central Laboratory for Agricultural Climate Institute
• Ministry of Water Resources and Irrigation - National Water Research Centre (NWRC)
• Ministry of Water Resources and Irrigation - National Water Research Centre - Coastal Research Institute (CoRI)
• Ministry of Water Resources and Irrigation - Shore Protection Authority (SPA)
• National Authority for Remote Sensing and Space Science (NARSS)
• National Institute of Oceanography & Fisheries (NIOF)
• University of Alexandria - Faculty of Science - Environmental studies Sciences
• University of Alexandria - Faculty of Science - Oceanography Department
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**CIVIL SOCIETY ORGANIZATIONS:**

• Friends of the Environment
• The General Federation of NGOs
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**ANNEX III: FINAL WORKSHOP – ATTENDANCE LIST**

البريد الإلكتروني	تليفون	جهة العمل	الوظيفة	الاسم	م
anwar.sarwat@envirsnies.org	37495686	ت	أنفايرونكس – استشاريون للبيئة والتنمية	استشاري بيئي أول	1
	33360599	ف			
	01005085797	م			
Mahahmed_narss@yahoo.com Mahahmed_narss@narss.sci.eg	26251213	ت	الهيئة القومية للاستشعار من بعد وعلوم الفضاء	رئيس شعبة التطبيقات الزراعية والتربة وعلوم البحار / قائم بأعمال نائب رئيس الهيئة	2
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	01001502501	م			
mahatawrik2@gmail.com	44448219	ت	المركز القومي لبحوث المياه	نائب رئيس المركز	3
	44447354	ف			
		م			
	045 / 3348232	ت	الإدارة العامة للشئون الإنتاجية والاقتصادية – ديوان عام المحافظة - دمنهور	مدير إدارة شئون الإنتاج	4
	045 / 3344010	ف			
	01112817962	م			
mfishar@hotmail.com		ت	المعهد القومي لعلوم البحار والمصايد	أستاذ بالمعهد القومي لعلوم البحار والمصايد	5
		ف			
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dr.amany2009@hotmail.com		ت	المركز الوطني لتخطيط استخدامات أراضي الدولة	مدير إدارة تنظيم واستخدامات الاراضي	6
		ف			
	01223776998	م			
ibraheim.husseini@travco.com	38544114	ت	شركة تراكوا للهندسة والإنشاءات	مدير مشروعات	7

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	01001087689	م			
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	03 / 5634115	ف			
	01006633546	م			
a_fathy.spa2016@yahoo.com	44458706	ت	الهيئة المصرية العامة لحماية الشواطئ	رئيس مجلس إدارة الهيئة المصرية العامة	13 م. أحمد فتحي عبد الرحيم

م	الاسم	الوظيفة	جهة العمل	تليفون	البريد الإلكتروني
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14	م. علاء عباس حلمي عوض	رئيس إدارة مركزية	قطاع المياه الجوفية – وزارة الموارد المائية والري	ت ف م	alaabbas68@gmail.com
15	أ.د. هشام مصطفى محمد	مدير معهد بحوث إدارة المياه	معهد بحوث إدارة المياه – المركز القومي لبحوث المياه	ت ف م	hmmali@hotmail.com
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17	م. أمنية محمود أحمد شوقي	باحث شئون بيئية ثانی - الادارة العامة للمخاطر والتكيف	الإدارة المركزية للتغيرات المناخية - وزارة البيئة	ت ف م	omniah83@yahoo.com
18	م. طارق عبد الحفيظ شلبي	مدير عام الإدارة العامة للمخاطر والتكيف	الإدارة المركزية للتغيرات المناخية- وزارة البيئة	ت ف م	trkshlby@hotmail.com
19	د. مروة رمضان حافظ		إدارة شئون البيئة – ديوان عام محافظة الإسكندرية	ت ف	marwa.hafez@yahoo.com

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tareksamman@yahoo.com	42189596	ت	المركز القومي لبحوث المياه	مدير معهد بحوث صيانة القنوات	أ.د. طارق أحمد السمان
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ashzakey@gmail.com	26849860	ت	الهيئة العامة للأرصاد الجوية - وزارة الطيران المدني	رئيس الإدارة المركزية لبحوث الأرصاد والمناخ	د. أشرف صابر زكى
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	24646715	م			
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	24646715	م			
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Mona.Gabrial@hotmail.com	24019555	ت	الهيئة العامة لتنمية الثروة السمكية - وزارة الزراعة واستصلاح الأراضي	مدير عام الإدارة العامة للبحوث	ك. منى حبيب ميخائيل
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elgammalhussein@gmail.com	44455375	ت	المركز القومي لبحوث المياه	أمين عام المركز القومي لبحوث المياه	د. حسين عبد الحليم الجمال
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	25256475	ف			
	01092704644	م			
		ت		سكرتير عام محافظة الدقهلية	السيد اللواء / فايز شلتوت
	052321052	ف			
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البريد الإلكتروني	تليفون	جهة العمل	الوظيفة	الاسم	م
	35449497	ت	وزارة الموارد المائية والري	المتحدث الرسمي لوزارة الموارد المائية والري	39
	35449422	ف			
	01223409805	م			
Saberm1963@gmail.com		ت	مركز البحوث الزراعية – وزارة الزراعة	وكيل معهد بحوث الاراضى والمياه والبيئة	40
		ف			
	01227149684	م			
mahafahim2007@yahoo.com		ت	الإدارة العامة للبحوث والدراسات البيئية	م. مها محمد فهيم	41
		ف			
		م			
Ashrafsoltan41@gmail.com		ت	الشركة المصرية للرمال السوداء	رئيس مجلس الادارة والعضو المنتدب	42
	21816946	ف			
	01001622985	م			
Nabilamin_122@yahoo.com		ت	الشركة المصرية للرمال السوداء	مدير المصانع	43
	21816946	ف			
	01006049265	م			
Ay_mattar@gmail.com	06 63223901	ت	الادارة العامة لشئون البيئة بمحافظة بورسعيد	رئيس قسم تقييم التأثير البيئي	44
	06 63223901	ف			
	01227125082	م			
Gamalamar33@yahoo.com Envirosina2011@yahoo.com	068 3320921	ت	محافظة شمال سيناء – ديوان عام المحافظة	مدير شئون البيئة	45
	068 3320800	ف			
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Hussam.fahmy@yahoo.com	42195530	ت	المركز القومي لبحوث المياه	نائب رئيس المركز لشئون الخطة البحثية	أ.د. حسام الدين فهمي
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heba.gaber@eeas.europa.eu		ت	الاتحاد الأوروبي		هبة جابر
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		م			
zmohf@rctws.org	38334107	ت	قطاع التدريب الإقليمي للموارد المائية والري	رئيس قطاع التدريب	م. زبيدة محمد فتح الله محمود
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amina.soliman@environics.org	37495686	ت	أنفايرونكس – استشاريون للبيئة والتنمية	باحث بيئي	أمينة سليمان
	33360599	ف			
		م			

البريد الإلكتروني	تليفون	جهة العمل	الوظيفة	الاسم	م
	35738039	ت	هيئة الصرف – وزارة الموارد المائية والصرف	رئيس هيئة الصرف	أ.د. عصام خليفة
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	01224581262	م			
	25370317	ت	الهيئة العامة للتنمية الصناعية	مستشار الهيئة العامة للتنمية الصناعية	م. حسين الجارحي
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	01284198103	م			
mehna97@yahoo.com	03 4844615	ت	المركز القومي لبحوث المياه	أمين عام معهد بحوث الشواطئ	د/ مدحت عبد المحسن على
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ashelazab@yahoo.com	/ 27585831 27585835 27585832	هيئة المواد النووية	رئيس قسم الرواسب المشعة والشاطئية الحديثة	أ.د. أشرف العزب ابراهيم	61
heshnahas@gmail.com	/ 27585831 27585835 27585832 01228215927	هيئة المواد النووية	رئيس مشروع الرمال السوداء	م. هشام عبد العزيز النحاس	62
halasuez@yahoo.com		جهاز شئون البيئة – فرع السويس	مدير إدارة المناطق الساحلية والبحرية	ك. هالة على السيد على حمدالله	63
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halasuez@yahoo.com		الإدارة البيئية الإدارة المركزية - جهاز شئون البيئة – فرع السويس	مدير عام الإدارة البيئية الإدارة المركزية	الأستاذ / غريب مرسى	65
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	42189539	ف			
	01006785908	م			
	046 4908532	ت	الإدارة العامة للمياه الجوفية بمطروح	م. بولس ميلاد عطا الله	68
	046 4908532	ف			
	01224125468	م			
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	03 4844616	ف			
	01005628084	م			
	03 4844615	ت	المركز القومي لبحوث المياه	م. أسماء غانم	70
	03 4844616	ف			
		م			
	03 4844615	ت	المركز القومي لبحوث المياه	م. أمنية محمد عبدالرحمن	71
	03 4844616	ف			
		م			
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	03 4844616	ف			
	01126633443	م			

البريد الإلكتروني	تليفون	جهة العمل	الوظيفة	الاسم	م
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	ف				
	م				
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	ت				
	ف				
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	ت				
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	42184344				
	01064789786				
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	42188729				
	01222566269				
	0122228389	وزارة البيئة	مستشار وزير البيئة	د. مصطفى فودة	80
	ت				
	ف				

البريد الإلكتروني	تليفون	جهة العمل	الوظيفة	الاسم	م
		ت	قطاع مياه النيل – وزارة الموارد المائية والرى	مهندسة موارد المائية	81
		ف			
	01283322080	م			
Drmayadaali2015@gmail.com	44446180	ت	المركز القومى لبحوث المياه	مكتب فنى – رئيس المركز	82
	44446761	ف			
		م			
Ahmedragheb672000@yahoo.com	42183581	ت	المعامل المركزية المركز القومى لبحوث المياه	مساعد باحث	83
	42174663	ف			
	01010715774	م			
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	42182070	ف			
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Mdh.ft90@yahoo.com	42183581	ت	المعامل المركزية المركز القومى لبحوث المياه	مساعد باحث	85
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Environment-ida@gmail.com		ت	الهيئة العامة للتنمية الصناعية	أخصائى مشروعات – الإدارة العامة لحماية البيئة	86
		ف			
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		ف			
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	42189597	ف			
	01016959369	م			
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	42189597	ف			
	01096963904	م			
moustafagaweesh@yahoo.com		ت	المركز القومى لبحوث المياه	أستاذ متفرغ	92
		ف			
	01001472265	م			
Enagat.farg@yahoo.com		ت	ديوان عام محافظة بورسعيد	مدير عام شؤون البيئة	94
		ف			
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		ف			
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	42182070	ف			
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	42188729	ف			
	01128133490	م			
Yasser.sherif@enviromis.org		ت	انفايرونكس	استشاري بيئي	98
		ف			
	01005374600	م			
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م	الاسم	الوظيفة	جهة العمل	تليفون	البريد الإلكتروني
			لبحوث المياه	42189539 ف 01006785908 م	
103	م. أحمد دويدار	مساعد باحث	معهد بحوث الهيدروليكا – المركز القومي لبحوث المياه	42189657 ت 42189539 ف 01001299103 م	Dewedar2014@gmail.com
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106	لواء / فايد ابراهيم التامى	مدير محمية البرلس والمشرف على ادارة شئون البيئة	جهاز شئون البيئة	ت ف م	
107	م. كاريمان كمال السيد	مساعد باحث	معهد بحوث إدارة المياه – المركز القومي لبحوث المياه	42189458 ت 42189561 ف 01124419553 م	Karimankamal47@yahoo.com
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			جريدة المال	مدحت اسماعيل	111
			اليوم السابع	حسام عاطف	112
			الجمهورية	عصام الشيخ	113
			الاهرام	اسلام احمد	114
			المساء	نبيل الشيمي	115
				محمد عبد المنصف	116
			المصرى اليوم	متولى سالم	117
			القناة الاولى	محمد مرتضى	118
			الاذاعه البرنامج العام	مى الشافعى	119
			ON TV مذيع في	البراء احمد	120
				ONlive مراسل	

Table 18. Final Workshop – Attendance list.

## ANNEX IV: OUTLINE FOR INDIVIDUAL INTERVIEWS WITH KEY STAKEHOLDERS

This document provides an outline of the main information that should be obtained from key stakeholders.

### 1. STAKEHOLDERS AND INSTITUTIONAL STRUCTURE

General description of the institution (interviewee)

- Institutional structure: head institution, number and type of departments and regional branches.
- Number of employees.
- Competences.

Institutional structure and roles

- Activities and roles performed regarding coastal management (i.e.: monitoring, license, research & development, execution of coastal works, management, etc.).
- Human and technical resources to perform these activities.
- To which institution are these activities reported? And which institutions report to the interviewee?
- Procedures related to these activities and institutions involved. Description of these relationships.
- Identification of constraints and needs for coastal management related to institutional capabilities and administrative procedures.

Closing question: desired role in the ICZM Scoping Study: i) collaborative, ii) consultative, iii) informative.

Identification of local stakeholders (relevant stakeholders for one or few Coastal Units)

- Matruh Governorate
- Alexandria Governorate
- Beheira Governorate
- Kafr el-Sheikh Governorate
- Dakahlia Governorate
- Damietta Governorate
- Port Said Governorate
- North Sinai Governorate
- Al Sharquia Governorate
- Ismailia Governorate

### 2. DATA ASSESSMENT

- Which projects have been developed by the interviewee during the last 10 years? If possible, the interviewee should prepare a list.
- Which coastal data (reference to the Data needs list) does the interviewee produce? (temporal and spatial resolution?).

- Are these reports and data available? Under specific requirements?
- Data collection for the ICZM Scoping Study to be included in the database (database will be accessible for key stakeholders).

Identification of constraints and needs regarding data availability.

- Identify data constraints and needs for coastal management.