Egypt-Wing National Workshop for Delta Alliances Activities

Titled:

Resilience of Nile Delta and Adaptation Options under Climate Change

Date: May 25, 2017

Place: Cairo – Pyramisa Hotel

Wing Members: National Water Research Center, Alexandria, Tanta & Kafr El-Sheikh Universities

Invited participants: total 70

<table>
<thead>
<tr>
<th>Sector</th>
<th>Name</th>
<th>No. of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Egypt Wing</td>
<td>National Water Research Center, Alexandria, Tanta &amp; Kafr El-Sheikh Universities</td>
<td>10</td>
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<tr>
<td>2 Representative of the Delta Governorates</td>
<td>Qaluobiya, Monofiya, Gharbiya, Kafr El-Sheikh, Behara, Alexandria, Sharkiya, Dakahlia, Damiatta &amp; Port Said</td>
<td>10</td>
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<tr>
<td>3 Authorities</td>
<td>Egyptian Environmental Affairs, General Org. for Physical Planning, General Authority for Fish Resources Development, Remote Sensing Authority, Shore Protection Authority, Drainage Authorities, Transportation Authorities, Harbors Authorities, Planning Sector MWRI</td>
<td>10</td>
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<tr>
<td>4 Institutes</td>
<td>National Institute of Oceanography and Fisheries, Research and Studies Higher Institute, Surveying Research Institute, Climate Change Research Institute, Water Management Research Institute, Port Said University, Arab Academy for Maritime and Technology</td>
<td>25</td>
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<tr>
<td>5 Companies</td>
<td>Water &amp; Waste Water Holding company</td>
<td>3</td>
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<td>6 Non-governmental Organizations</td>
<td>Water Users Associations, Fisheries Association, etc.</td>
<td>5</td>
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<tr>
<td>7 Private Sector</td>
<td>Farmers, Fisheries, Private Industries</td>
<td>5</td>
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<tr>
<td>8 International Org.</td>
<td>UNDP, GEF,</td>
<td>2</td>
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Place: Pyramisa Hotel, Cairo

Agenda:

8:30-9:30   Registration

9:30-10:00  Opening Session

H.E. Prof. Mohamed AbdelMotaleb President of NWRC, Prof. Mohamed Soliman – focal point of Delta Alliance-Egypt Wing,

10:00-10:30  Coffee Break

10:30-12:15  Presentations of Current Activities, Delta Alliances Egypt Wing

Prof. Haythem Awad, Alexandria Univ., Observation and Modelling of Exterm Weather on West Delta

Prof. Mohamed Soliman       Adaptation of Climate Change , Coordinator of Egypt Wing

Prof. Ashraf ElAshaal       Nile Delta Subsidence, observation and modelling

Prof. Khalid Zahran         Monitoring of Nile Delta Subsidence

Eng. Ibrahim Salman        Enhancing Nile Delta against inundation

12:15-13:00  Coffee Break

13:00-14:00  Stakeholders Group discussion about participation of Egypt Wing Activities

14:00-14:45  Group presentation and discussion

14:45-15:00  Closing remarks

15:00-16:00  Lunch
List of participants:

<table>
<thead>
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<th>No.</th>
<th>Category</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Egypt wing</td>
<td>Prof. Mohamed AbdelMotaleb, Prof. Mohamed Soliman, Prof. Bakenaz Zidan, Prof. Haytham Awad, Eng. Mir Mokhtar</td>
</tr>
<tr>
<td>2</td>
<td>Representative of the Delta Governorates</td>
<td>Secretary General of the 10 Delta Governorates, Qaluobiya, Monofiya, Gharbiya, Kafr El-Sheikh, Behara, Alexandria, Sharqiya, Dakahlia, Damiatta &amp; Port Said</td>
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<tr>
<td>5</td>
<td>Companies</td>
<td>Eng. Mamdouh Raslan, Eng. Magdy Badawy,</td>
</tr>
<tr>
<td>6</td>
<td>Non-governmental Organizations</td>
<td>WUA of Beharia and Kafr ElSheikh Gov. Edko lake Fisheries Union,</td>
</tr>
<tr>
<td>7</td>
<td>Private Sector</td>
<td>Dina Farms, Representatives of Farmers Societies in Behara, West delta &amp; Kafr ElSheikh regions</td>
</tr>
<tr>
<td>8</td>
<td>International Organization</td>
<td>Dr. Mohamed Bayoumi, UNDP, Dr. Mohamed Ahmed Ali, GEF</td>
</tr>
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Total Number of Participants in the workshop is 70.

The flyer of Delta Alliances was translated into Arabic and was printed and distributed to all participants, a soft copy is attached.

Photos of all workshop activities with brief description.
Opening session

Prof. Hytham Awad during presentation

Prof. Ashraf ElAshaal during presentation

Prof. Khalid Zahran during presentation

Prof. Mohamed Soliman during presentation

Eng. Ibraim Salman during presentation

Participants at opening session
H.E. Prof. Abdelmotleb during presentation discussion

Farmers rising their concerns in Delta Water issues

Fishermen intervention in presentation discussion

Young researcher participation

Experts contribution to discussion

Group discussion

Group discussion
Output of group discussion:

Identify the problems facing development in the Nile Delta and the coastal area

Participants from the Nile Delta region:

(state executive entities - expertise bodies - research centers and institutes - academic universities - beneficiaries - civil society - private sector)

Problem description:

1. Increase of population growth.
2. Increase of pollution (presence of pesticide residues in agricultural drainage - sewage).
3. Coastal erosion.
4. The impact of pollution on the development of fish resources.
5. Shrinking of water body in some lakes due to infringements.

Constraints:

1. Lack of information needed for solving problems due to Lack of mechanisms for coordination and data sharing between competent authorities.
2. High cost for treatment of sewage and industrial wastewater.
3. Difficulty in separating agricultural drainage and industrial drainage.
4. Lack of financing resources for projects.

Localization of best practices:

1. Education of children starting from the stages of primary schools.
2. Proper guidance of individuals.
3. Enact legislation that includes severe penalties for violators.

Some suggested solutions

1. Constructing an updated database covering most of the delta areas where the problems exist.
2. Improving water quality in Manzala Lake as a first step, as it is considered the largest lake in fish production.
3. Launching the project of "dikes to protect the low areas from the sea flood".
4. Develop long-term research plans to address the problem of Delta inundation.
5. Using satellite imagery through inexpensive programs to monitor the changes that are constantly occurring.
6. Take advantage of the rainwater.
7. Use of integrated natural technologies such as wetlands as a technique to treat agricultural wastewater before discharged to lakes.
8. Adopting three-way wastewater treatment technology.

Funding Resources

Governmental, Grants, Loans