



Regional capacity building workshop on Biodiversity and Health Helisnky 23-25 October 2017

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#### **OUTLINES**

- 1. Sustainable development strategy (Egypt vision 2030.)
- 2. National Biodiversity Strategy and Action Plan(NBSAP):
- 3. Biological Diversity and Health
- 4. Current situation(opportunities to linkages)
- **5. Best practices:** Sustainable use of natural resources
- 6. Challenges and needs

### **Egyptian Vision (2030)**

"Environment is integrated in all economic sectors to preserve natural resources and support their efficient use and investment, while ensuring next generations' rights. A clean, safe and healthy environment leading to diversified production resources and economic activities, supporting competitiveness, providing new jobs, eliminating poverty and achieving social justice.

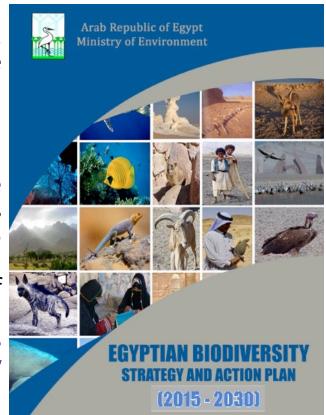
## **Egyptian NBSAP (2015 – 2030)**

#### Vision:

"By 2030 biodiversity in Egypt is valued, mainstreamed, maintained for the good livelihoods and conserved for the sustainable use of future generations"

#### Mission:

"Egypt takes effective and innovative actions to reduce the loss of biodiversity to ensure that by 2030 ecosystems continue to provide their services to all Egyptian and also ensure pressures on biodiversity are reduced; biological resources are sustainably used and benefits arising out of utilization of genetic resources are shared in a fair and equitable manner; biodiversity issues and values mainstreamed and appropriate policies are effectively implemented in a participatory approach."



### **Egyptian NBSAP** (Strategic Goals)

- 1. Strategic Goal 1: Conserve and manage terrestrial and aquatic biodiversity to ensure sustainable use and equitable benefits to the people
- 2. Strategic Goal 2: Sustainable use of natural resources
- **3. Strategic Goal 3:** Access to genetic resources and Benefit sharing (Nagoya protocol, indigenous knowledge and traditions)
- **4. Strategic Goal 4:** Improve our understanding of biological diversity and ecosystem functioning in a changing environment
- 5. Strategic Goal 5: Prepare for climate change and combat desertification
- **6. Strategic Goal 6:** Build partnerships and integrate biodiversity into all national development frameworks

### Value of Egypt's Protected Areas

- Conserve biodiversity and ecosystem services
  - Global value = 2-several fold global GDP
  - For food, water, disease regulation, traditional medicine, adaptation to climate change
- Foundation of \$6 billion eco-tourism industry, growing at 15% per annual
- Poverty reduction in marginal areas in Egypt
- Wealth of information that could be used to develop human health and other sectors







# Biological diversity and health

- Identification of plant species that have benefits to human health is done.
- Important Medicinal Plants is delineated.
- Reports related to Medicinal Plants, Traditional
   Knowledge, and Data Collection Program.







### Biological diversity and health

- ✓ NCS/EEAA in consultation with many stakeholders developed a national strategic plan for conservation and sustainable use of Medicinal plants which was approved by the Government.
- ✓ The Medicinal Plants Association (MPA) is a nongovernmental organization established in Saint Katherine that depends on the volunteers' efforts to play an effective role in their community to support the conservation and sustainable use of medicinal plants.





Medicinal Plants Conservation Projec

#### Highlights of the MPCP CBNRM Pro gram:

- interest in management

  Challenges can be overcome using a participa-
- Promising cooperation from the Saint Vatherine Bedook Community and support from other stake-
- Existing legal framework enables community based management

"The main thrust for the MPCP interventions is to address the issues of tenure of and access to the MAP resources and ensure that benefits are returned to those closest to the

#### The MPCP Projec

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#### triust for the project is is to address the nure of and access to A tenturin softing medicinal pin sources and ensure its are reburned to

sides are recurred to production, management bearing the cests of an management.

This paper aims to den steered to the steps taken towards

#### NRM: Executive Summary

#### is issue: (CBMBH) mechanism, if force was formed by combining local and intern

- Stalosholder Analysis 2
- Defining Boundaries 3 and Users
- The Medicinal Plants 3 Association
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- eleged into a model commubased organization (CBO). Howe IRM for similar resources is a proact y novice approach, where the
  - Here and more collectors identity themselves as such and she willingness to cooperate and enlist into the controlled colle-

#### tablishing a CRMEN for Saint tion and management of therine faced some chalnges, for example: The community dock of interest by the commuuses for the MAP (see p

It is believed that despite challenges, adopting a portion co to tary approach and adapt ormamanagement to the process If MAP lead to the successful establi many ment of CBRRM by with gall Saint Katherine Bedeuin influence and share control or y 40° the MAP, as well as otabin tar

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## Traditional knowledge

Recognizing the value of cultural diversity and traditional knowledge:

Egypt protected and documented traditional knowledge and their usage particularly in protected areas; through registration of 38 species of medicinal plants in South Sinai, 45 species in North Sinai, 19 species in Elba's area, 13 species in western desert, 16 species in eastern desert





### **Climatic change and Health**

#### Has Direct Healthy impacts:

- The increase in diseases of high temperature such as: sun shock, skin cancer and cataract.
- Indirect impacts include water shortage, agricultural productivity shortage leading to food shortage and appearance of Anemia and malnutrition diseases, in addition to change in water and air quality.
- Also, one of the indirect healthy impacts of climate change are diseases related to parasites and pests which high temperature help in their dissemination.

# Regional and local Current situation for cross-sector human health and biodiversity collaboration

- The Steering Committee of the Egyptian System for the Quality and Safety of Medicinal and Aromatic Plants Products, which is the constituted by the decision of the Minister of Industry and Foreign Trade No. 205 of 2013.
- The Regional Strategy on Health and Environment and Framework (2017–2030), developed by the WHO Regional Office and WHO Regional Centre for Environmental Health Action, Arab League and United Nations Environmental Programme was presented and approved by all Arab States.
- Participation of representative from Ministry of Health the Steering committees of many projects such as Biosafety,
- Participation of representative from Ministry of Environment in the Board of Directors of the Food Safety Authority.

## **Best practices(NCS)**

Support the Reference lab for GMOs at the Ministry of

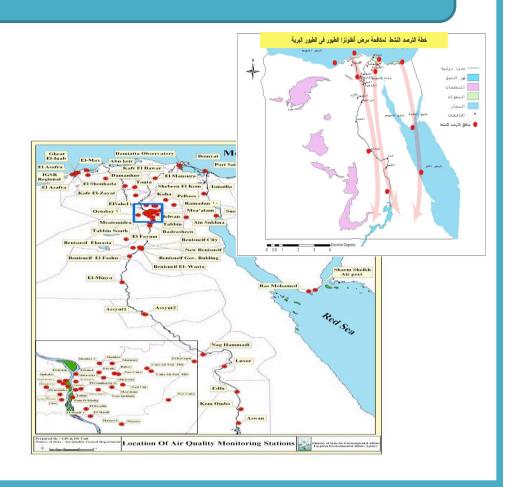
Health with equipment and trained staff.





# **Best practices (NCS &EQS)**

- National plan for monitoring bird flow in collaboration with Ministry of Health and other government agencies.
- National network to monitor air pollutants (90 Air Stations in Egypt)

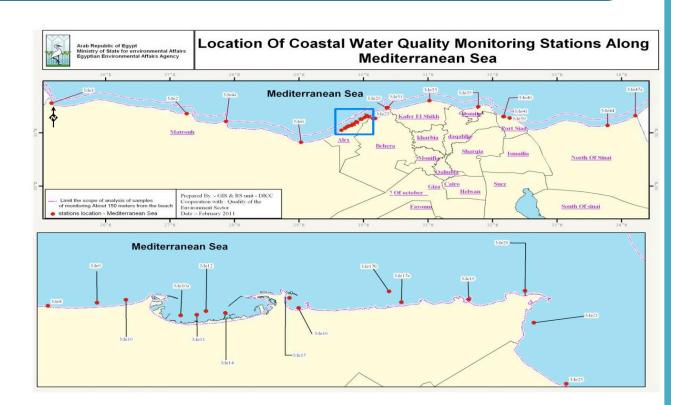


### **Best practices (Ozone)**

- Medical aerosols sector
- In collaboration with Ministry of Health, EEAA is participating in converting production lines of medical aerosol that consume 163 tons of (CFC's) as propellant in Metered Dose Inhalers (MDI) used by respiratory asthmatic patients to non-Ozone depleting alternatives. In coordination with Pharmacy Department, Ministry of Health and pharmaceutical companies, EEAA implements the National Strategy to raise awareness, through training courses for doctors and pharmacists with non-ODS aerosols alternative.

## **Best practices**

Mediterranean WaterQuality annually since1998



### **Best practices**

■ Joint work between Ministries of Environment and Health to protect the Nile and the waterways from pollution, in accordance with the Egyptian Constitution (article 45) and national legislation.

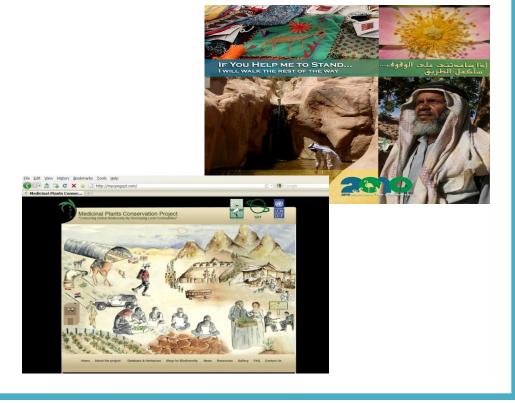
#### **Best practices**

#### The Green and Herbal School Program - Educating the Future

#### Community of Saint Katherine

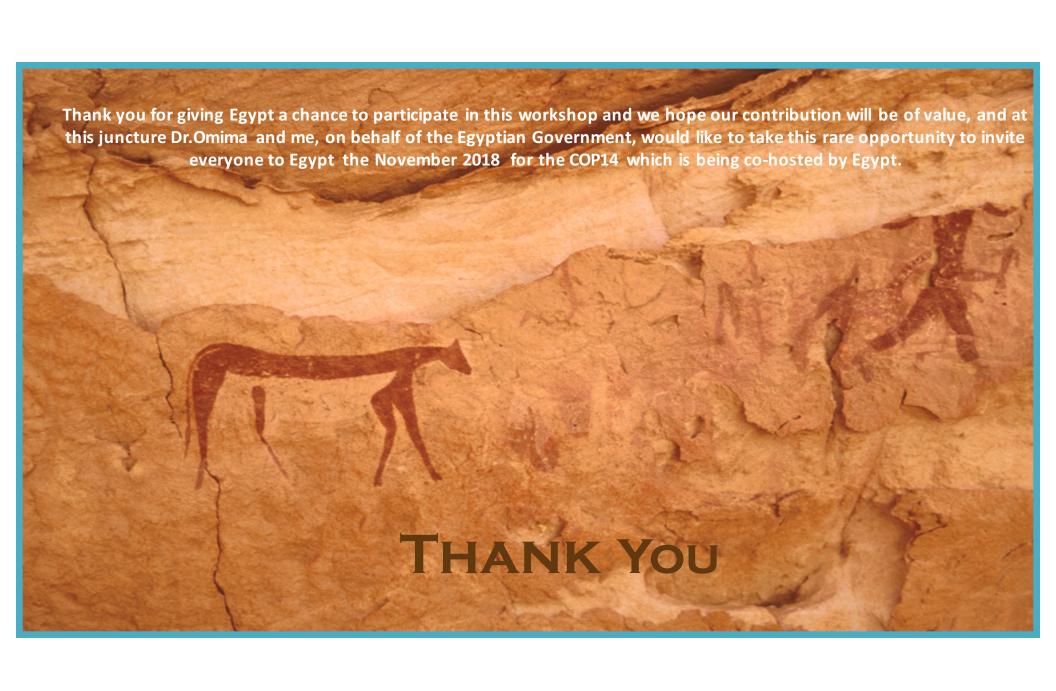






#### **Challenges and Needs**

- Better understanding of linkages between biodiversity and human health (food, water, disease regulation, traditional medicine, adaptation to climate change)
- Implementation of CBD Strategic Plan and SDGs
- Capacity building
- Technical and financial resources
- Enhance regional cooperation for integration of biodiversity into human health





Thank you for giving Egypt a chance to participate in this workshop and we hope our contribution will be of value, and at this juncture Dr.Omima and me, on behalf of the Egyptian Government, would like to take this rare opportunity to invite everyone to Egypt the November 2018 for the COP14 which is being co-hosted by Egypt.