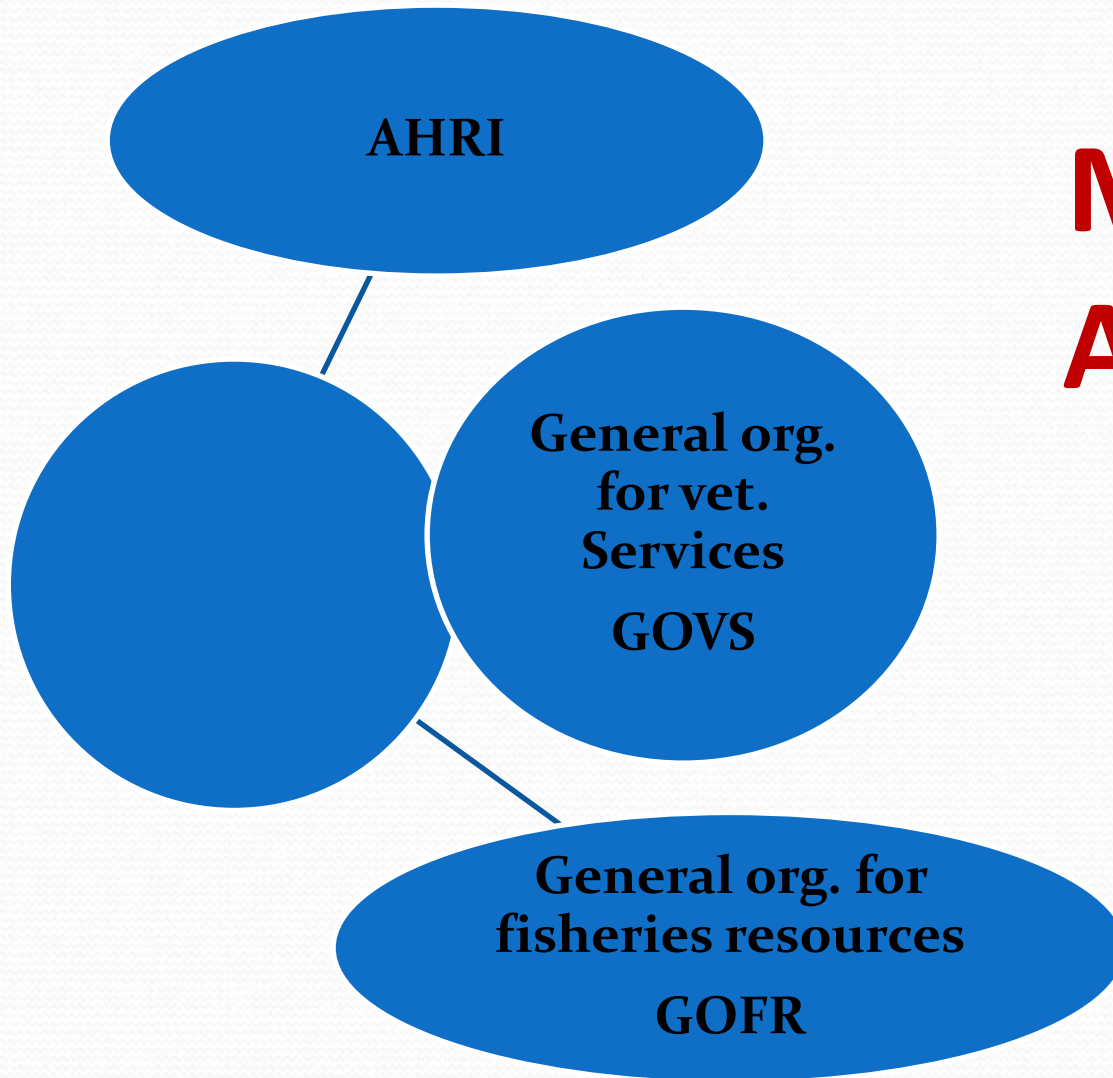


EGYPT
SAYS
HELLO



Ministry of Agriculture





Animal Health Research Institute

- **Consists of 26 department**
- **Includes 27 Provincial lab.**
- **International accredited (EJAC)**
- **Implement biosafety measures**
- **Fish Diseases Department**

*General org. for vet.
services (fisheries branch)
GOVS*

- **Responsible for importing & exporting fish**
- **Giving certificates to farms**

*General org. for fish
resources GOFR*

- **Supervision of gov. & some registered private farms**
- **Providing them with fry or fingerlings**

Fish Diseases Dep.

- Complete fish diagnosis, isolation & treatment
- International accredited (EJAC)
- Carry out Researchers
- Solving Fish farms problems
- Examination of all fish (living or frozen), crustacea, mollasces, fish meal imported or exported
- Training for vet . Students or freshly graduate

**Natural
Lakes, Seas
& Nile river**

Cultivated

**Semi
intensive**

Intensive

**Integrated
system**

Aquaculture in Egypt

Fish species

- **Tilapia**
- **Carp (common or grass)**
- **Clarias gariepinus**
- **Marine as sea bass or sea bream or shrimp**
- **Our production of Tilapia is one million and 100 thousand tons annually**



Other Aquaculture projects

- **Ghalion**
- **New Suez canal**

Four Primary Controls of Biosafety



CWA 15793

Risk Management:

- **Plan**
- **DO**
- **Check**
- **Act**



Action plan
(Auditing committee)

- **First step:**
was making up checklist

Action plan

(Auditing committee)

Second step:

- Farms registry & type of farm
- Mapping the farm & its surroundings
- Recording any mortalities, diseases and the treatment



Action plan
(Auditing committee)

Third step:

- same concept and same language
- Implement biosecurity measures in farms through (awareness, training, PPE and monitoring)

Action plan *(Auditing committee)*

- **Fourth step:**
- Making first visit to the farm
- Broad stock selection
- Restricted quarantine measures
- Restricted fish transfer
- Inlet, pathway & outlet of water



Action plan *(Auditing committee)*

- **Farm design**
- **Airflow in the farm**
- **Indoors and outdoors pathways**
- **Potentiality to cross contamination**
- **Strategy emergency**
- **Movement of vehicles & disinfection**

Action plan (Auditing committee)

- Recording visitors
- Restricted access of visitors & workers
- Health certificates of workers
- Recording accidents
- Investigation & corrective action

Action plan *(Auditing committee)*

- **Making risk assessment for each farm and determine whether accepted or not**
- **Making waste disposal protocol**
- **Periodical examination of fish**
- **Daily and Periodical Water analysis**

Action plan *(Auditing committee)*

- **Disinfection protocol & places**
- **Restricted equipment**
- **Never transport or import fish without certificate**
- **Training of workers**
- **Registered food source**
- **The food storage**

Action plan (Auditing committee)

- **Fifth step:**
- **Making audit on farms**
- **Giving the farm certificate to export**
- **Follow up**

EGBSA

- *Organized at 2002*
- *Localized at AHRI*
- *Includes many researchers, institutes, universities, different ministries*

EGBSA

- ***Target:***
***To build bridges of
Biorisk Dialogues***



**Dr.
Nashwa**