Fish Resources In Arab Republic Of EGYPT Managing by
The General Authority For Fish Resources Development
(GAFRD) (Governmental Sector)
Which has been Established by the Presidential Decree
190/1983,
for the development of national economy in fish resources
field and the construction of horizontal and vertical
expansion projects included in the general policy and plane
of the country.
Egyptian aquaculture has developed rapidly in the recent years, especially in the period from 1980 until now.

Fish production increased from 180,000 MT including 9,000 MT from aquaculture, accounting for 5% of the total production.

1.37 million tons in 2012, including 1,017,738 million tons from aquaculture, accounting by 74% of total production and 354,237 MT from Fishery, accounting by 26% of total production.

The Egyptian Strategy to achieve 2.1 million tons in 2018.
## Total Quantity and Value of Catch, 2012 Compared to 2011

<table>
<thead>
<tr>
<th>Source</th>
<th>Year</th>
<th>Quantity &amp; Value</th>
<th>%</th>
<th>مقدار التغيير</th>
<th>Amount of change</th>
<th>2012</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural fisheries</td>
<td></td>
<td>Qua. / MT</td>
<td>-5.63</td>
<td>-21117</td>
<td>354237</td>
<td>375354</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value / 1000 EGP</td>
<td>5.72</td>
<td>295902</td>
<td>5466175</td>
<td>5170272</td>
<td></td>
</tr>
<tr>
<td>Aquaculture</td>
<td></td>
<td>Qua. / MT</td>
<td>3.13</td>
<td>30918</td>
<td>1017738</td>
<td>986820</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value / 1000 EGP</td>
<td>4.61</td>
<td>536973</td>
<td>12185775</td>
<td>11648803</td>
<td></td>
</tr>
<tr>
<td>Total production</td>
<td></td>
<td>Qua. / MT</td>
<td>0.72</td>
<td>9801</td>
<td>1371975</td>
<td>1362174</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value / 1000 EGP</td>
<td>4.95</td>
<td>832875</td>
<td>17651950</td>
<td>16819075</td>
<td></td>
</tr>
</tbody>
</table>

1. Domestic Production Available = (Domestic Production – Exports)
2. Total Available for Consumption = (Domestic Production – Exports + Imports)

## Total Quantity of Exports and Imports of Fish, 2012 Compared to 2011

<table>
<thead>
<tr>
<th>Statement</th>
<th>Year</th>
<th>Quantity</th>
<th>%</th>
<th>مقدار التغيير</th>
<th>2012</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exports</td>
<td></td>
<td>Qua. / MT</td>
<td>66.57</td>
<td>6317</td>
<td>15807</td>
<td>9489</td>
</tr>
<tr>
<td>Imports</td>
<td></td>
<td>Qua. / MT</td>
<td>83.85</td>
<td>152801</td>
<td>335023</td>
<td>182222</td>
</tr>
</tbody>
</table>

## Annual Average Share Per Capita of Fish, 2012 Compared to 2011

<table>
<thead>
<tr>
<th>Statement</th>
<th>Year</th>
<th>* نصيب الفرد كجم في السنة عام 2012</th>
<th>2012</th>
<th>* نصيب الفرد كجم في السنة عام 2011</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available of domestic prod. (1)</td>
<td></td>
<td>16.48</td>
<td></td>
<td>16.82</td>
<td></td>
</tr>
<tr>
<td>Total available for consumption (2)</td>
<td></td>
<td>20.55</td>
<td></td>
<td>19.09</td>
<td></td>
</tr>
</tbody>
</table>
Development of Fish Production in Egypt (1995 - 2012)

According to international cooperation, sustainability must be the concept of development this sector. There is no development without sustainability.
International Position for Egypt

- Egypt has a leader position in the world (NO.9 in the largest 15 Aquaculture countries).
- In the African Region Egypt producing alone 64% of the total aquaculture production.
- Egypt is in the second position in Tilapia Aquaculture after China.
- However Egypt is the largest producer of Mullet from Aquaculture in the world.

Egyptian context evolution

- Fish Production from Fishery almost Stable through next 20 years, because over fishing operation.
- There is the impact of many legal constrain in fishery law No.124 on fresh aquaculture production whish effect on the exportation to international markets like European Union and USA.
- Marine Aquaculture Now become the magic solution to go to international markets and food security for the normal citizen.
**Egyptian GAFRD Strategy**

**Strategy components Inputs:**
- Cage unit
  - Installation/production
  - Private sector involvement
- Mussels and Oyster Farm
  - Installation/production
  - Private sector involvement
  - Fishermen involvement
- Fish Processing /
  - Relative industrials

**Outputs**
- SWOT analysis
- Marine Aquaculture Road Map

**Sector studies**
- National production, constrains solution
- Mediterranean/Egyptian Market
- Institution/sector constrains
- Financial support
- Research and Training needs
- Sector technology needs
- Cost analysis and solution
- Environment (EIA/Strategy)

**SUSTAINABILITY KEY FACTORS**

**HUMAN RESOURCES / TRAINING**
TECHNOLOGY/HATCHERY

Mooring System

TECHNOLOGY CAGES
PILOT UNIT

Mooring System
Sustainability Factors:
Know How (Training For Stock Holders)

1. Road Map for marine aquaculture;
2. Business Models for Cage aquaculture/sea bass/bream;
4. Business Models for Marine Feed Factory;
5. Business Models for Fish handling and processing Factory;
10. Research Center for Marine fish diseases treatments;
11. Research Center for Fresh and Marine water quality;
12. Main and new candidate species;
13. Potential marine areas cage farming;

The Objectives of Human resources Training

CONFLICT REDUCTION IN

Suppliers
Hatcheries
GAFRD and public actors
Credit institutions
AQUACULTURE FARMERS
Traders, whole salers and retailers
Donors and international agencies
Consumers
WHY A NEW STRATEGY?

NEW CHALLENGES
- National economy
- Price trends
- Sustainability and resources availability.

UNTAPPED OPPORTUNITIES:
- High value fish production (marine) have been left behind.
- Penetration to high profitable external markets.

UNSOLVED CONSTRAINTS:
- results in term of quantities of production, but the efficiency and profitability of the farms is often not high rewarding.

SOLID BASIS:
20 years of booming of the Egyptian Aquaculture (mainly Tilapia and- to a minor extent- flathead grey Mullet) have strongly contributed to the national Food Security.

- Strengthening Human Resources by training and best practices
- Technology innovation
- Research
- Access to credit
- Technical assistance & extension services
- Environmental sustainability
- Governance improvement and dialogue among authorities
- Yield management and markets
### Activities for improvement through international cooperation with friend countries to implement the Egyptian Strategy

1. Marine Cages.
3. Marine aquaculture In land.
5. Mussels aquaculture.
6. Artificial Coral reef.
7. Exportation Hulls.
8. Fish Processing Factories.
9. Research Center for Marine Fish disease and water quality.
10. Genetic Bank for save Pure Strain for Egyptian Fish.

### Projects Implemented in Egypt by the collaboration with Friends Countries

1. **MADE Project (Marine aquaculture Development In Egypt):**
   - Funded by International Italian Cooperation Through Dept.-Swab Program.
   - It’s achieve good results in Marine Aquaculture sector in Egypt since 2011 eg;
     - Install 4 Marine Cages with productivity 100 tons for Sea Bass and Sea Bream.
     - Marine Hatchery with productivity 5 Million Fingerlings Sea Bass and Sea Bream.
     - Extension Service For Marine farm in EGYPT.
     - On Job Training in Marine hatcheries For youth Both In Italy and Egypt.
2- READY MED FISH Project (Requalification of Employment And Diversification for Youth in the Mediterranean):

- Funded by European Union (ENPI CBC MED) Program.
- It’s Start since last November 2013 going to achieve a good results in Fishery and Aquaculture Sector in EGYPT eg;
- Definition of new professional profiles on the multi-functionality of artisanal fishery for Youth Fishermen (Marine Hatchery – Marine aquaculture – Mussels cultivation – Oyster cultivation – Marine Cages – Fish processing – related industrials).

2- READY MED FISH Project (Requalification of Employment And Diversification for Youth in the Mediterranean):

- On Job Training in Marine hatcheries, Marine Aquaculture in Cages, Mussels, Oyster cultivation and Fish processing For youth Fishers both in Italy and Egypt.
- legislation constrains solution.
- info and assistance desks for multi- functionality of fisheries.
THANKS FOR YOUR KIND ATTENTION