

## Agricultural activities in “Climate Change Risk Management in Egypt” project

### Vulnerability and adaptation component

“Agriculture” is key sector for the socio-economic development in Egypt, and it plays a significant role in the Egyptian national economy. About 50% of the Egyptian population relies on it for income generation and job opportunity creation, and it accounts for about 17% of GDP. The agricultural sector employs more than 30% of the labor force, and provides about 20% of the country's exports and a large portion of the important processing industries depend on raw materials produced by the sector. **The important role of agriculture in Egyptian economy, and the increased environmental pressures are the reasons that motivate the agriculture community to conclude that "agriculture is vulnerable to climate change", as an extra environmental pressure.**



### Climate change & Agriculture in Egypt

- Sea-level rise will be likely to reduce 12-15% of the existing agricultural land in the Nile delta.
- Temperature rises will be likely to reduce the productivity of the major crops, and increase their water requirements and irrigation demand.
- The vulnerability of agricultural sector in Egypt is referred to:
  - Water resources and water demands balance
  - Soil and water resources degradation
  - Population increase
  - The size of agriculture-land ownership
  - The role of agriculture in social structure of rural regions in Egypt.
  - The role of agriculture in Egyptian economy,
  - Knowledge level and gaps



### Adaptation of Agriculture in Egypt

- Adaptation plans to climate change become one of the top priorities of sustainable development of agricultural sector in Egypt.
- Adaptation of agricultural sector should be integrated, sustainable, economic efficient, continues and long term plans.

#### Adaptation priorities:

- ✓ Stress tolerant cultivars, crops and improved crop pattern.
- ✓ Improved on-farm irrigation management.
- ✓ Capacity building and public awareness.
- ✓ Integrated and improved crop-management.

Current pressures

Future risks, opportunities & uncertainties

Development priorities, agenda & policies



Adaptation strategies and practices integrated into climate-sensitive development policies, and plans

Pilot measures implemented and scaled up in support of adaptation mainstreaming and policymaking

Climate Change Risk Management in Egypt