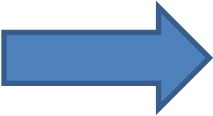




# The environment


- > Tunisia is heavily impacted by water scarcity (450 m<sup>3</sup>/capita/year) and among the most vulnerable to climate change effects
- > South is arid or semi arid (less than 200 m<sup>3</sup>/capita/year)
- > South-East agriculture is mainly mono production based: olive trees

# Existing model out of date

- Olive trees productivity is low and irregular
  - Plantations are old
  - Heavily impacted by climate change: more frequent draughts
  - Soils have been eroded
  - Activity limited to a short period in the year
-  - Desertification  
- People migration

# Need for new model:

Innovative - Sustainable - Replicable – ‘Bankable’

- Sufficient revenues to attract youth
  - Regular activity along the year to retain the population on site and stop migration
  - Speculations adapted to climate change
- 
- Diversified production (fruits, aromatic and medicinal plants...)
  - Optimisation of the value chain
  - Improvement of primary resources (water, soil and energy): desalination using RE, soil rehabilitation

# Description of the project

- **Component 1.** Rehabilitation of the olive tree and fruit and vegetable species diversification
- **Component 2.** Introduction of aromatic and medicinal plants
- **Component 3** Correction and rehabilitation of soil
- **Component 4** Nexus water - energy: desalination and establishment of an underground irrigation system
- **Component 5** Recovery and processing of agricultural products

# Outcomes and outputs of the project

- Promote innovative technologies and practices related to agriculture
- Encourage the creation of rewarding jobs in the technological and agricultural areas
- Create added value and promote regional development
- Offer platforms of experimentation of high level to the needs of businesses and from friendly countries of the Tunisia and Tunisian research centres

# Prototype site: South-East Tunisia

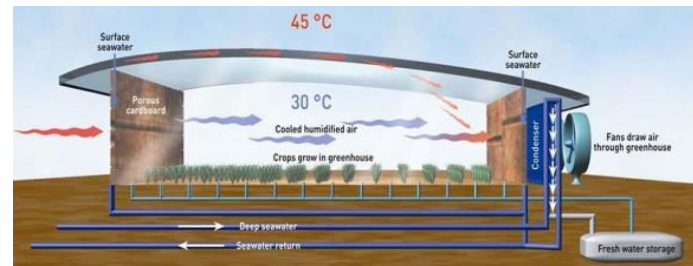
33 °30'55.81"N; 10°53'26.08"E



# Interaction with Research

Search for innovative... but workable solutions & approaches to the main challenges:

- > Solar energy model economically sound
- > Sea water desalination at affordable cost (greenhouse model??)



- > Soil rehabilitation: environment friendly
- > diversified production and optimised value chain



THANK YOU

DANKE

Ahmed BASSALAH



