

MITIGATING CLIMATE CHANGE WITH PROTECTED AGRICULTURE

According to the United Nations by the year 2050 the world population will be close to 10 Billion people. Population growth along with poor agricultural infrastructure and the challenges associated with climate change, are creating a serious risk to food security of vulnerable nations, generating new challenges to agricultural productivity. This Combined with rising living standards, food production needs to increase by ~70% in the next 30 years. The solutions require strategies for the intensification of agricultural production and adaptation of technical solutions.

The increase in food production must also be carried out with less natural resources, less water, less fertilizers, less chemicals and less soil, which is why "protected agriculture", growing crops under cover such as tunnels, shade nets and greenhouses is required in order to improve yields in food production while reducing stress on natural resources.

AITEC promotes the use of use of greenhouses and innovative technologies from Israel to enable farmers in developing countries to adopt to climate change, enabling higher yields, better quality produce with less resources.

Some examples of our projects



Embu, Kenya: Greenhouses are the AITEC site



Dodoma, Tanzania: Vegetable Production in ShadeNet



Sidama, Ethiopia: Seedling Nursery for fruits trees



www.AITECfarm.com

AITEC The Agricultural and Innovation and Technology Centers



The Optimal Solution!

AITEC combines Israeli technology with the development of professionals emphasizing long term sustainability.

AITEC aims to catalyze private sector development through the training of technical experts to make sure investments work.

AITEC is designed to be replicable and scalable throughout Africa and aims to transform and optimize the water/agricultural sectors through capacity building, logistics and investments.

Who We Are

AITEC is a game changing, agricultural program that seeks to train and develop a new generation of agronomists and growers, provide extension services, regional logistics and technical support in order to transform the agricultural sector and ensure food and nutritional security.





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AGRICULTURAL INNOVATION AND TECHNOLOGY CENTERS

Growing Agricultural Professionals

AGRICULTURAL INNOVATION AND TECHNOLOGY CENTER (AITEC)

AITEC is joint project between Don Bosco (Dodoma), CultivAid (Israeli NGO) and W4M (USA NGO).

The site in Tanzania was established in Jan 2021 and in Kenya in 2022. The farms make up a new agricultural department at Don Bosco Technical Institutes and operate as center for trainings & practical research.

We aim to create and support agronomical and educational initiatives with different partners and stakeholders, to promote long term sustainable development of the agricultural sector and to achieve food and nutritional security along with revenue generation and job creation.

The farm includes pressurized drip & sprinkler irrigation, protected agriculture, a seedling production unit, orchards & intercrops, and a vineyard.



"If you think in terms of a year, plant a seed; if in terms of ten years, plant trees; if in terms of 100 years, educate." Confucius

Training, Demonstration and Research Site

The base for the horticulture trainings program. The site is equipped with:

- Drip and Sprinkler Irrigation
- Vegetable Production
- Fruit orchards and vineyard
- Protected Agriculture
- Seedling Nursery

AITEC's Capacity Building

unique curriculum emphasizing hands-on experience and service learning that offers:

- 8 Months Certificate Program
- 3-year Degree Program
- Specialized Training's



AITEC's Extension Services

Agronomical and logistical support to ensure successful implementation and commercialization of the projects, such as

-  **TRAINED**, building capacity and market linkages for rural farmers.
-  **Vineyard** production and research for improved quality and higher quantity.
-  **Community pressurized Irrigation**, providing extension and logistical support