

## Agricultural innovations

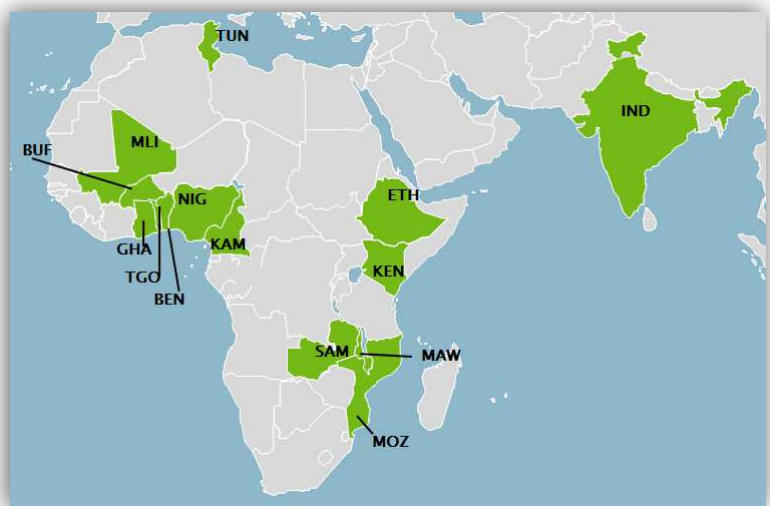


### Venture an outlook...

- The world's population is expected to reach **9.6 billion** by 2050, but vital resources like water and arable land are becoming increasingly scarce.
- **Knowledge and innovation** are fundamental to secure food security now and in the future. For example, how to use water and fertilisers effectively, how to adapt cultivation to climate change and how to protect food from mould through appropriate storage.

The German Federal Government supports the development of 14 „**GREEN INNOVATION CENTRES FOR THE AGRICULTURE AND FOOD SECTOR**“, thirteen of them in Africa and one in India. They are part of the „**ONE WORLD, NO HUNGER**“ INITIATIVE of the German Federal Ministry for Economic Cooperation and Development. The project is implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

The main objectives of the **14 GREEN INNOVATION CENTRES** are raising agricultural **PRODUCTIVITY** as well as the processing of food **ECONOMICALLY, ENVIRONMENTALLY AND SOCIALLY SUSTAINABLE**. The aim is to **COMBATE HUNGER, MALNUTRITION AND POVERTY**. Innovation means **CHANGE IN ROUTINES**. Innovation can be **TECHNICAL OR ORGANISATIONAL**. High-quality seeds generate higher yields, for instance. Optimised harvesting, drying, storage and transport prevent up to 30 per cent of food being lost on the way to the plate. Efficient cooperation between farms and food manufacturers up and down the value chain, boost sales and income, which is of vital importance to the farmers.





## Activities

➤ **FROM PRODUCTION TO MARKETING, THE GREEN INNOVATION CENTRES SUPPORT THE ENTIRE AGRICULTURAL VALUE CHAIN.** The following measures are used with different emphasis for different countries and needs

**EDUCATION AND TRAINING OF PRODUCERS, SERVICE PROVIDERS AND COMPANIES** in cultivation methods, livestock farming, water management, post-harvest treatment, transport, quality, processing, marketing and economic knowledge.

**DEVELOPMENT AND UPDATING OF EDUCATIONAL MATERIAL** for agricultural schools

**QUALIFICATION OF TRAINERS** that provide advisory and qualification services for generators and other actors in cooperation with public research bodies.

**DEVELOPMENT OF DEMONSTRATION FIELDS OR DEMONSTRATION PLANTS** to help clarify training contents with regard to irrigation design, cultivation and processing.

**IMPROVED ACCESS TO RESOURCES**, such as supply, multiplication and the improvement of the quality of seeds, for instance

**ENCOURAGING OF INVESTMENTS IN THE AGRICULTURAL SECTOR**, through, for example, selective support of innovative companies

**PROMOTION AND DIFFUSION OF INNOVATIONS AND TECHNOLOGIES**, such as start-ups, small and medium-sized companies or farming organisations

**DISSEMINATION OF KNOWLEDGE THROUGH THE INFORMATION AND COMMUNICATION TECHNOLOGIES**, such as improvement of the access to information on prices, cultivation methods and marketing opportunities of the actors

**NETWORKING BETWEEN ACTORS UP AND DOWN THE VALUE CHAIN** to enhance competitiveness and knowledge management

### OUR OBJECTIVES

**SUSTAINBLY RAISE THE PRODUCTIVITY OF SMALL-SCALE FARMING ENTERPRISES**

**BOOST THE INCOMES**

**CREATE NEW JOBS IN UPSTREAM AND DOWNSTREAM ENTERPRISES**

**IMPROVE THE LOCAL SUPPLY OF FOOD**

**GENERATE PROSPECTS FOR WOMEN AND YOUNG PEOPLE**

### TARGET GROUPS

- ✓ Small farmers
- ✓ Small and medium-sized enterprises (SME), producer groups and big enterprises that integrate small-scale farming enterprises in the supply chain
- ✓ Start-ups, particularly young people and women
- ✓ Qualified experts and executives of civil society organisations in the agricultural support

### WHAT IS INNOVATIVE ABOUT THIS PROGRAMME?

#### TECHNICALLY

Mechanisation  
Improved production methods  
Good agricultural practice  
Improved seeds  
Optimized fertilisation or cool chains

#### INSTITUTIONALLY

Development of:  
Producer associations  
Cooperatives  
Specialised enterprises or representation of interests

#### DISSEMINATION OF KNOWLEDGE

Training, instruction and consultation.  
Access to funding in cooperation with existing knowledge centres such as agricultural schools or research facilities

#### Legal notice

##### Published by

Deutsche Gesellschaft für  
Internationale Zusammenarbeit (GIZ) GmbH  
Registered office: Bonn and Eschborn  
Abteilung Ländliche Entwicklung und  
Agrarwirtschaft G500 Friedrich-Ebert-Allee 36+40  
53113 Bonn

T +49 (0) 228 44 60 - 0  
greeninnovationscentres@giz.de  
www.giz.de

##### Authors:

Christel Weller-Molongua  
Stepan Uncovsky

#### Photo credits:

© GIZ/ Jörg Böhling  
GIZ is responsible for the content of  
this publication.

May 2017