



## Key achievements in Burundi

- 2019: The Ministry of Foreign Affairs presents a bill in parliament for the peaceful use and the safety and security of nuclear energy and ionizing radiation.
- 2016: Burundi signs its first Country Programme Framework with the IAEA.

## Atoms for peace and development

The International Atomic Energy Agency is the world's central intergovernmental forum for scientific and technical cooperation in the nuclear field. It works for the safe, secure and peaceful uses of nuclear science and technology, contributing to international peace and security.

The IAEA's technical cooperation programme helps countries to use nuclear science and technology to address key development priorities, including health, agriculture, water, the environment and industry. The programme also helps countries to identify and meet future energy needs. It supports greater radiation safety and nuclear security, and provides legislative assistance.

## Recent project successes

### Crop improvement

The IAEA collaborates with the Institute of Agronomic Sciences of Burundi in areas including the use of isotope and nuclear techniques to improve the use of resources by crops, and in cropping-livestock systems. Other areas of collaboration include protection of soil and water resources for sustainable and climate-smart agriculture, design and implementation of innovative and effective plant breeding programmes using radiation-induced mutation, mutation detection and pre-breeding technologies, and activities to enhance food security and sustainable crop production systems.

### Livestock production

The agriculture and livestock sector employs over 90 percent of the population in Burundi. Productivity remains low due to several factors, including the impact of pests, which affects about 20 percent of animals. While the National Veterinary Laboratory conducted various analyses for the livestock sector, it needed equipment and staff training. Through the national IAEA technical cooperation programme, the IAEA is assisting Burundi to develop, validate and apply innovative nuclear and nuclear-derived techniques for animal genetic evaluation and to enhance animal reproduction. Burundi also receives support for the early or rapid diagnosis and control of transboundary animal and zoonotic diseases.



Laboratory at the National Centre for Food Technology in Bujumbura where the IAEA has provided support in isotope and nuclear techniques to improve crops and livestock systems. (Photo: Felix Barrio/IAEA)

## Active national projects

- Improving Cassava Productivity through Mutation Breeding and Better Water and Nutrient Management Practices Using Nuclear Techniques (BDI5001)
- Improving Animal Production Through Enhanced Application of Nuclear and Related Techniques (BDI5002)
- Supporting the Establishment of National Cancer Therapy Services (BDI6001)
- Establishing a National Regulatory Infrastructure for the Control of Radiation Sources - Phase III (BDI9003)

Burundi also participates in 13 regional and 1 interregional projects, mostly in the area of food and agriculture

## Previous IAEA support to Burundi

The technical cooperation programme has previously focused on supporting the establishment of an independent regulatory body for radiation protection, as well as an energy planning, the production of improved crop varieties, and soil and water management for improved cassava productivity.



In 2016, the IAEA and FAO partnered with research institutes and farmer associations to improve soil nutrient and water management practices using nuclear-derived techniques, which led to a three-fold increase in cassava yields. (Photo: Felix Barrio/IAEA)

## IAEA support to Burundi, 2009–2019



**126** trained  
(including 6 women)

**17** international experts provided

**36** attended specialist meetings  
(including 2 women)

## Priority areas of support

- Strengthening human health
- Improving food and agriculture
- Supporting the energy sector
- Management of water resources
- Radiation safety and nuclear security
- Management of nuclear waste

## Burundi's contribution to South-South and triangular cooperation, 2009–2019



2 expert and lecturer assignments provided by Burundi

Based on data available as of April 2020

## Cancer control imPACT Review conducted: March 2017

## Strategic documents supported

- UN Development Assistance Framework 2017–2018
- Country Programme Framework 2016–2020, signed in December 2016

[www.iaea.org/technicalcooperation](http://www.iaea.org/technicalcooperation)

The IAEA collaborates with National Liaison Officers and Permanent Missions to deliver its TC programme.