

Burundi

IAEA Member State since June 2009

Selected achievements

2024: Burundi finalizes a bankable document for the establishment of its first radiotherapy facility.

2022: Burundi promulgates its Nuclear Law.

2021: Burundi signs its second Country Programme Framework with the IAEA.

National priorities

- Nuclear and radiation safety
- Food and agriculture
- Human health
- Water resources management and environment
- Tertiary education programme on nuclear science and technology

Main areas of IAEA support

- Establishment of independent regulatory body
- Radiation protection
- Energy planning
- Production of improved crop varieties
- Soil and water management
- Food safety
- Human health

Project successes

Crop Improvement

In collaboration with the IAEA, the Institute of Agronomic Sciences of Burundi (ISABU) advanced the application of isotope and nuclear techniques to improve crop intake of resources and in cropping livestock systems.

Other areas of collaboration include the protection of soil and water resources for sustainable and climate-smart agriculture, innovative and effective plant mutation breeding programmes using radiation, mutation detection and pre-breeding technologies and enhancing food security



By applying improved nutrient, water and soil management practices, farmers in several African countries were able to double and even triple the yields of cassava, Africa's most produced cash crop and an important part of the local cuisine. (Photo: M. Zaman/IAEA)

and sustainable crop production systems. In addition, new mutant lines of cassava with resistance to viral diseases were developed, and better water and nutrient management has resulted in a threefold yield increase compared to traditional farmers' techniques.

Livestock production

Burundi's agriculture and livestock sector employs over 90 per cent of the population. Productivity remains low due to several factors, including the impact of pests, which affects about 20 per cent of animals. The IAEA is supporting Burundi for the development, validation and application of innovative nuclear and nuclear-derived techniques for animal genetic evaluation and to enhance animal reproduction.. Burundi also receives IAEA support for the early rapid diagnosis and control of transboundary animal and zoonotic diseases.

The programme will continue to improve milk and livestock production by building capacity of the veterinary services to characterize pathogens, control animal and zoonotic diseases and increase milk production of farm animals through improved animal reproduction, nutrition and genetics.

Participation in the major initiatives

- NUTEC Plastics
- Rays of Hope
- ZODIAC

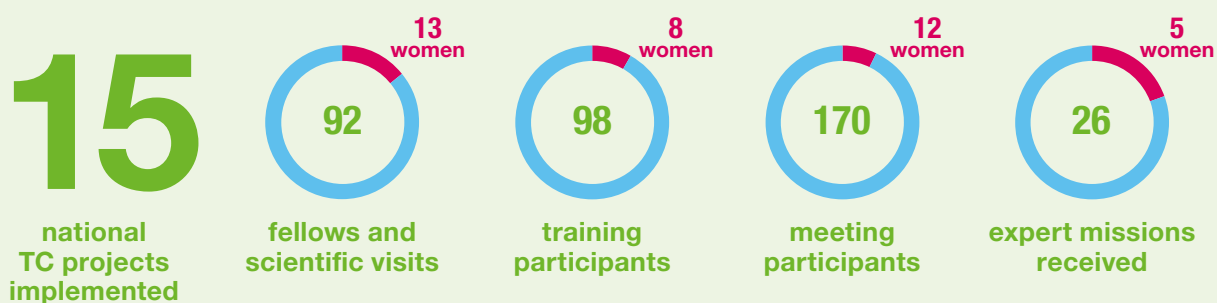
Date of imPACT Review(s)

2017



Farmers in the Gitega Province in central Burundi harvest cassava, a starchy root vegetable and major cash crop, after using nuclear-enhanced methods to boost crop yields.
(Photo: E. Vyizigiro/Institute of Agricultural Science of Burundi)

IAEA support received in the 21st century



Contributions to South-South and triangular cooperation

