

Chad

IAEA Member State since November 2005

Selected achievements

2024: The Research Institute for Livestock and Development (IRED) establishes a world-class ZODIAC laboratory that substantially expands the national capacity to identify, monitor and characterise zoonotic diseases.

2023: The National Cancer Control Programme (NCCP) for 2023–2027 is launched.



The Research Institute for Livestock and Development (IRED) established a new world-class laboratory for the identification and monitoring of zoonoses, with the support of the IAEA under its ZODIAC Initiative. (Photo: M. Warnau/IAEA)

National priorities

- Radiation safety
- Agriculture and animal resources
- Human health
- Sustainable energy development
- Improved water management techniques
- Human resource development in nuclear science and technology

Main areas of IAEA support

- Radiation safety
- Radiotherapy
- Nuclear medicine
- Sterile insect technique
- Livestock production

Project successes

Legislative and regulatory infrastructures for radiation safety

The IAEA supported the establishment of the Chadian Radiation Protection and Nuclear Security Agency (ATRSN) by developing and strengthening its nuclear legislative and regulatory framework.

Expert guidance, scientific visits, fellowships and trainings were provided for drafting and

implementing regulations of the nuclear law according to the IAEA Safety Standards. Expertise covered notification, authorisation, inspection, enforcement, safety assessments and occupational radiation exposure control. The IAEA also contributed to the procurement of inspection equipment which facilitated the start of the medical and industrial safety inspections in 2015.

The IAEA continues to support ATRSN in enhancing its capacity in radiation protection and nuclear safety to ensure the safe and secure use of radioactive sources and promote the peaceful uses of nuclear technology.

Livestock production

With IAEA support, a National artificial insemination (AI) centre and regional sub-centres were established, providing frozen semen and AI equipment along with progesterone analysis to improve AI service quality.

Existing AI facilities were assessed and national human capacities in AI techniques enhanced, particularly for semen collection, processing and preservation.

This support has been instrumental in increasing local cattle breeding, resulting in the availability of crossbred cattle for both milk and beef production and improving farmers' livelihoods.

Moreover, it has paved the way for the establishment of semi-industrial farms to increase livestock production and enhance food security in Chad.

Agricultural water and soil management

The IAEA has been supporting the Chadian Institute of Agricultural Research for Development (ITRAD) to enhance its human resource capacity in applying isotopic and nuclear techniques for soil and water management, crop production and nutrient assessments in agriculture. In addition to organizing several fellowships and scientific visits, the IAEA procured laboratory equipment to complement these efforts. These have been aimed primarily at increasing the production of millet and sorghum to support food security and preserve soil and water resources in the Lake Chad Basin.



Researchers at the Research Institute for Livestock and Development (IRED), a world-class laboratory for the identification and monitoring of zoonoses established under the IAEA's ZODIAC Initiative. (Photo: M. Warnau/IAEA)

Participation in the major initiatives

- NUTEC Plastics
- Rays of Hope
- ZODIAC

Date of imPACT Review(s)

2012

IAEA support received in the 21st century



Contributions to South-South and triangular cooperation

