

# Côte d'Ivoire

IAEA Member State since November 1963

## Selected achievements

**2023:** Côte d'Ivoire opens its first nuclear medicine service (IMENA) in Abidjan.

**2023:** The national laboratory for environmental control with gamma spectrometry is established under the nuclear regulatory authority (ARSN).

**2017:** Côte d'Ivoire's first radiotherapy centre opens in Abidjan.



Professor Didi-Kouko COULIBALY, the Director General of CNRAO, the Alassane Ouattara National Radiotherapy Center, shows visitors around the centre. (Photo: CNRAO)

## National priorities

- Food and agriculture sectors
- Food safety
- Human health
- Livestock productivity
- Nuclear and radiation safety and security

## Main areas of IAEA support

- Human health
- Animal production and health
- Food safety
- Radiation safety

## Project successes

### Cancer control: radiotherapy and nuclear medicine in Côte d'Ivoire

Since 2018, Côte d'Ivoire has significantly improved patient access to cancer diagnosis and treatment services, particularly through the Alassane Ouattara National Radiotherapy Center (CNRAO), which has treated 2 769 patients and established itself as a national reference center. The IAEA played a crucial role in these advancements by supporting the long term training of 5 oncologists, 4 medical physicists, and 17 radiation technologists, and by procuring quality assurance equipment. Additionally, in January 2024, the Abidjan Nuclear Medicine Institute (IMENA) commenced operations and by June 2024, performed 575 scintigraph exams

using the dual-head gamma camera provided by the IAEA. These efforts reflect Côte d'Ivoire's commitment to enhancing cancer care.

### Radiation protection of workers, patients and the public

Côte d'Ivoire's expanding oil, gas, and tantalite mining sectors pose radiation risks from Naturally Occurring Radioactive Materials (NORM). To address this, the IAEA assisted through project IVC9008, enhancing the Radiation Protection and Nuclear Safety Authority (ARSN) with advanced equipment and radioanalytical capabilities. The Ivorian Anti-Pollution Centre (CIAPOL) also upgraded its facilities for measuring alpha-emitting radionuclides, supporting ARSN. The project included training for ARSN and CIAPOL staff in alpha and gamma spectrometry analysis. Côte d'Ivoire is now designing a national environmental monitoring programme to ensure radiological protection.

### Food safety

Recent intervention through the TC programme has resulted in the preliminary building and strengthening of food safety testing capabilities in three institutions: LANEMA, LANADA and LNSP. Several laboratory analysts have been trained and analytical equipment established or improved, resulting in better testing for fish and processed foods. Further support for all is encouraged to facilitate routing surveillance, addressing export requirements and gaps in food safety standards etc.

## Animal production and health

Côte d'Ivoire is increasing the productivity of its livestock sector by incorporating assisted reproductive technologies and genetic characterization to ensure sustainable and resilient agricultural practices for the long term. The country is also committed to conserving indigenous livestock breeds, such as the N'Dama cattle.

In addition, over the past ten years, Côte d'Ivoire has enhanced animal health capabilities at the National Laboratory for Agricultural Development in Bingerville through expert missions, training of laboratory technicians and the provision of equipment. This has resulted in substantial improvement in livestock productivity.



The IVC laboratory information management system is in the process of being digitalized. (Photo: R. Adjoumani/ARSN)

## Participation in the major initiatives

- Rays of Hope
- ZODIAC

## Date of imPACT Review(s)

2010

## IAEA support received in the 21st century



## Contributions to South-South and triangular cooperation

