

# HELPING PEOPLE

AROUND THE WORLD













#### WHAT'S AT STAKE:

- of food and increase prices, which may push millions of people deeper into poverty.

   925 million people globally do not have enough to eat.

   With world population expected to reach 9 billion by 2050, ensuring food security demands significant advances in agriculture.

- Isotopic techniques can be used to study soil erosion and land degradation problems.
   Nuclear science is a powerful tool for detecting and controlling toxins and contaminants in the food supply.





#### WHAT'S AT STAKE:

- Poor health limits the potential of people everywhere, especially in developing countries.
   Cancer, malaria, tuberculosis, HIV/AIDS and malnutrition are major health concerns for

#### HOW ATOMS HELP:

- · Radiation therapy is a major part of concer treatment, and it requires trained specialists, hi-
- · Nuclear medicine and imaging techniques can save lives, restore health, predict the cause of disease and alleviate suffering.



#### WHAT'S AT STAKE:

- Environmental degradation and lack of clean water pose fundamental challenges to sustainable development.
   People cannot prosper without safe water to drink, healthy soils for crops and livestock, and

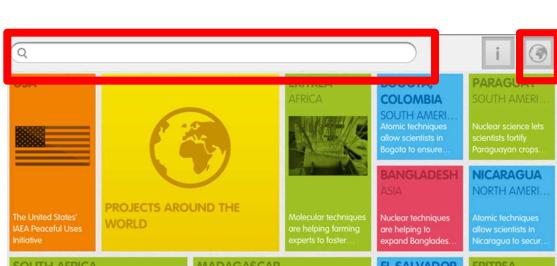
#### HOW ATOMS HELP:

- Scientists can use isotopes to examine existing water resources and identify new ones.
   Isotopes also help identify and combat sources of pollution and saline intrusion.
   Regional monitoring networks based on isotopes help improve water resource

- Molecular techniques allow early detection and prevention of harmful algae blooms.
  Land degradation threatens nearly 1 billion people in some 100 countries.
  It is estimated that roughly one third of the world's land area is experiencing descrification.











South Africa's highly developed fruit export sector finds much needed defense from pests

## MADAGASCAR



Nuclear science is combating disease and enhancing fertility for Madagascar's vital supply of livestock.

### EL SALVADOR NORTH AMERI...

Atomic techniques allow scientists in El Salvador to secure...

## SENEGAL

Farmers in Senegal are using nuclear technology to tackl..

## ERITREA



Molecular technique are helping farming experts to foster...





## VIETNAM

Theme: Health Location: Asia

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## GROWING VIETNAM'S CANCER CARE INFRASTRUCTURE

## Nuclear techniques are helping to expand Vietnam's ability to care for its cancer patients.

The IAEA is helping Vietnam's medical establishment to save the lives of its cancer-stricken patients with expanded use of radioisotope and radiation treatments. It is also working to enhance the care provided in local centers by using a technique that improves cancer prognosis, approaches to the disease and surgical procedures. Atomic techniques allow for earlier detection of the disease, which is a key to effective treatment. A key component of this effort is the establishment of cyclotron facilities and centers for medical applications and research in the country.