



# Partner with ICRISAT

## About ICRISAT

The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) is a pioneering, non-profit international scientific research for development organization, specializing in improving dryland farming and agri-food systems. The Institute was established in 1972, by a consortium led by the Ford Foundation and Rockefeller Foundation with the support from the Government of India. ICRISAT works with global partners to develop innovative science-backed solutions to overcome hunger, malnutrition, poverty, and environmental degradation in service to the 2.1 billion people who reside in the drylands of Asia, sub-Saharan Africa, and beyond.

## Accolades

- UNDP Mahatma Award 2023
- Africa Food Prize 2021
- 9<sup>th</sup> India CSR Award 2020
- National CSR Award India 2019
- King Baudouin Award 1996, 1998 and 2002

## Varieties/hybrids released

1,230 ICRISAT varieties released in 81 countries across the globe as of 2021

## Germplasm shared

More than 1.64 million seed samples distributed to 150 countries

## ICRISAT locations

**ICRISAT - Hyderabad, India (Headquarters);** New Delhi, India (liaison office).

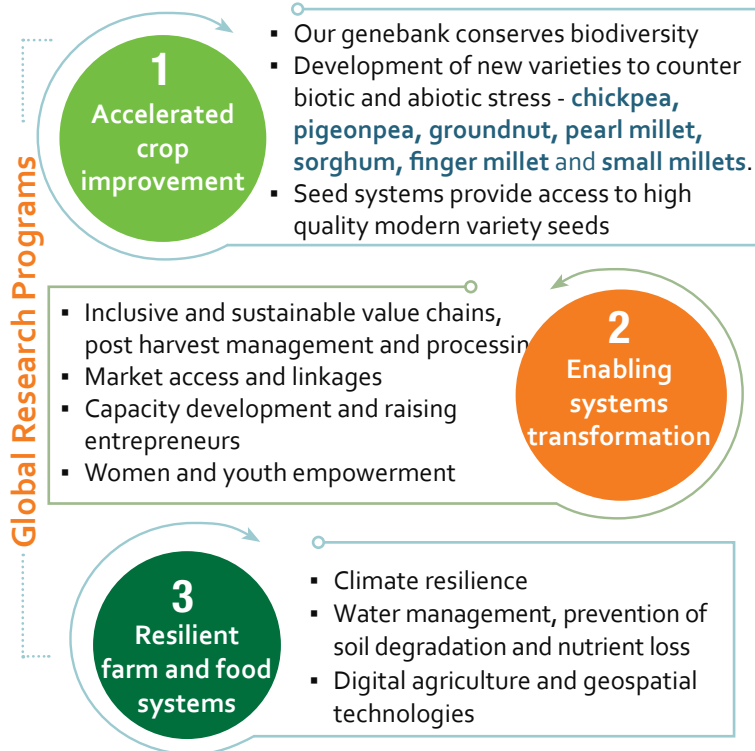
**ICRISAT - Nairobi, Kenya (Regional hub ESA);** Addis Ababa, Ethiopia; Lilongwe, Malawi; Bulawayo, Zimbabwe; Maputo, Mozambique; and Dar es Salaam, Tanzania.

**ICRISAT - Bamako, Mali (Regional hub WCA);** Niamey, Niger; Kano, Nigeria; and Dakar, Senegal.

## Research focus

The challenges facing the drylands are inextricably linked. As such the Institute adopts an holistic approach to its research with a focus on:

- Evidence-based solutions
- Markets to make farming more profitable
- Partnerships
- Environmental and business sustainability
- Participation, gender and social inclusion





# Climate Change in the Drylands



## Challenge

Climate change has degraded **12.6%** (5.43 million km<sup>2</sup>) of drylands, contributing to **desertification** and affecting **213 million** people, 93% of who live in developing economies.

## Proven solutions

We build and sustain the climate resilience of smallholder farmers and rehabilitate degraded agroecosystems through **regenerative agriculture practices** that are multi-disciplinary and science-led.

## Our approach

ICRISAT's research on remote sensing, prediction of climate change effect, weather advisory and climate smart technology implemented through climate smart village approach.



### Climate preparedness using world-class digital tools

- **Futuristic multi-models** for climate-smart strategies.
- **Weather advisories** and apps
- **GIS tools** for landscape studies and monitoring progress



### Future-ready crops: Good for you, the farmer and the planet

- **Advanced genomic technologies** assist in breeding crops that are biofortified, high-yielding, early-maturing, stress tolerant and high in biomass for fodder and fuel.
- **Rapid Generation** technology reduces the breeding cycle by about **40%**



### Transforming landscapes through soil and water management

- Integrated farm and landscape management **models** address soil degradation through soil health and water management practices, land restoration and crop-livestock integrated systems

## Successful impact of ICRISAT's interventions

### Improved food security

Bio-reclamation of degraded land by Women in Niger led to increased carbon sequestration. In addition, women were empowered through land acquisition, better incomes and improved household nutrition.

### Reversed migration

In Bundelkhand, India and in Yewol, Ethiopia, watershed interventions fostered through community participation stemmed farmers' migration.

### Improved incomes

Impact of watershed projects in India

- **72 million hectares** benefit from double cropping
- **30-60% farm losses reduced** due to water availability.



## Partnerships



ICRISAT's work contributes to the Sustainable Development Goals

