Delivering nutrition to the drylands

ICRISAT Annual Report 2017

We **believe** all **people** have a **right** to **nutritious food** and a **better livelihood**.

ICRISAT



INTERNATIONAL CROPS RESEARCH INSTITUTE FOR THE SEMI-ARID TROPICS



ICRISAT is a member of the CGIAR System Organization



Message from the Board Chair

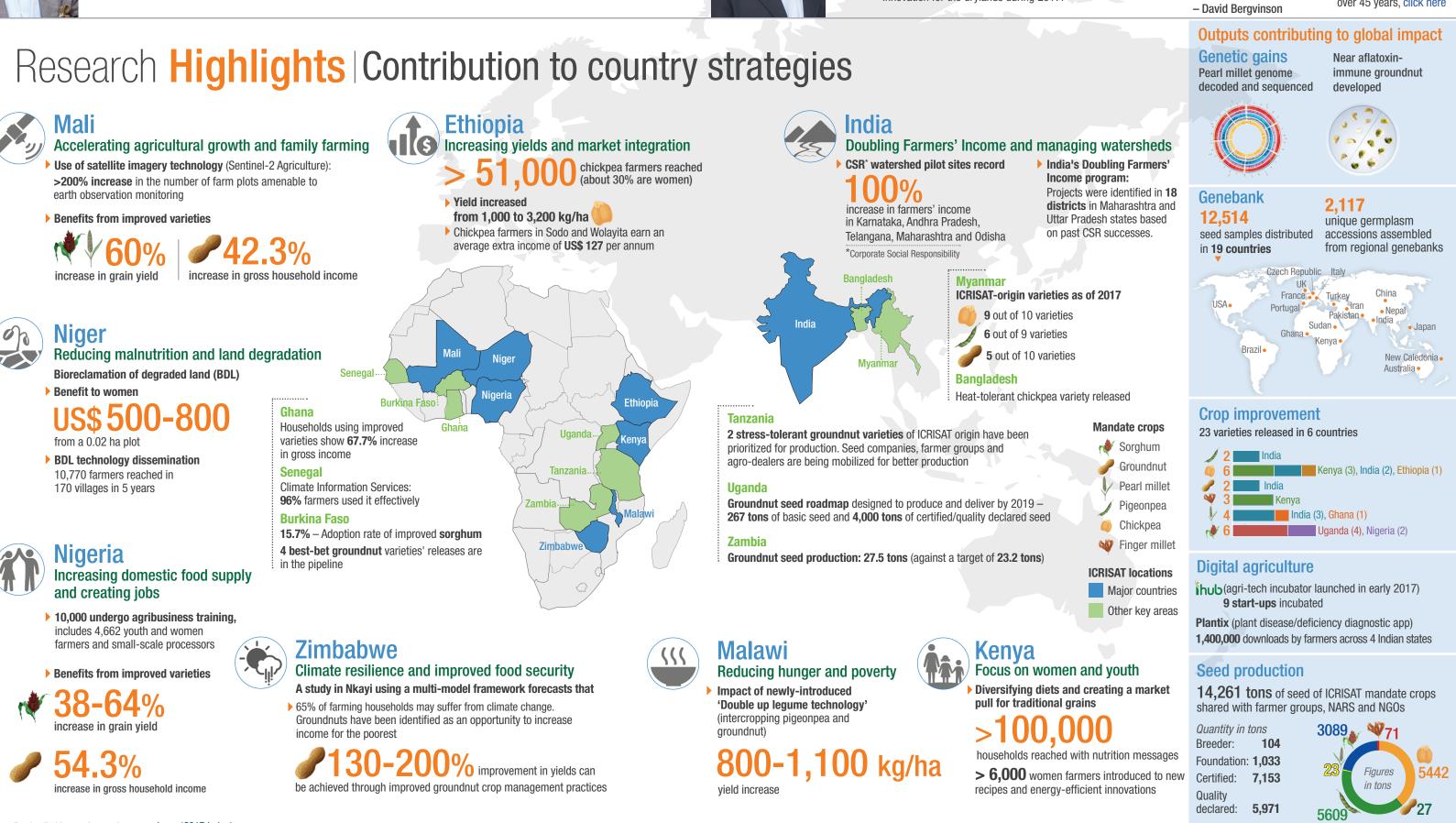
Research in ICRISAT is unique and multidisciplinary and it delivers so much to so many vulnerable people who live in a very fragile environment. Resilient nutrition is extremely important for dryland communities and moving from 2018 and beyond, I am delighted that ICRISAT is putting an increased emphasis on nutritional research.

– Nigel Wells Kerby



Message from the Director General

Over 45 years, ICRISAT has worked closely with national partners along value chains of its nutritious and climate-smart mandate crops - sorghum, pearl and finger millet, chickpea, pigeonpea and groundnut – to ensure our science improves the lives of farmers and nutrition for all consumers. Special appreciation to our partners and funders and to the many farmers who contributed to the design, development and delivery of demand-driven innovation for the drylands during 2017.





For Research Highlights over 45 years, click here

Quantity in tons		
Breeder:	104	
Foundation:	1,033	
Certified:	7,153	
Quality declared:	5,971	

Delivering Nutrition to the Drylands | Integrating nutrition across the agricultural R4D value chain: This graphic represents ICRISAT's holistic approach – working from land and water management all the way through to agribusiness and market development. Here are examples of how we have integrated nutrition at each stage.



A food package of pigeonpea, finger millet, groundnut, maize and vegetables was tested on children.



Ms Gladys Mugambi (R), Head of Nutrition, Ministry of Health, Kenya, congratulates Ms Esther Atieno, winner of the Smart Food contest



Gog'Lilly team: (L-R) Ms Pretty Aphane. Ms Mbali Zondo and Mr Page Balovi



Students of the Government Secondary School, Rano, operating the hammer mill.



79 mothers of malnourished children in rural Malawi were trained in diet diversity busi trained in diet diversity, hygiene and food safety. They were also trained to record the anthropometric data of their babies.

21 days later, incidence of diarrhoea almost entirely disappeared, impact on wasting showed progressive improvements.

Published in the Journal of Public Health Nutrition, Cambridge University Press.

Building demand for more nutritious food

Smart Food initiative

Launched in 2013, it aims to popularize millets and legumes and build food systems where the food is good for you (highly nutritious), good for the planet and good for the smallholder farmer.

Reality TV show 800,000 viewers per episode

Hosted by the Kenya Television Network to raise awareness on sorghum, millets and legumes.

Inclusive Market-Oriented Development

Agribusiness & Innovation Platform (AIP) has supported start-ups

186^{*} in Africa **87** in India (as of 2017)

ICRISAT trained six South African interns. This resulted in the Gog'Lilly brand of confectionery peanuts and peanut butter making it to the market in 18 months.

*As part of the UniBRAIN project in partnership with Forum for Agricultural Research in Africa from 2012-2016

Food processing trainings for better livelihoods

Volunteer students trained on processing sorghum

150 girls 50 boys trained unough a project in Nigeria. trained through a

- The grain used was the harvest from their school farms.
- The trainings instilled the idea of seeing farming as a business rather than an activity for subsistence living.

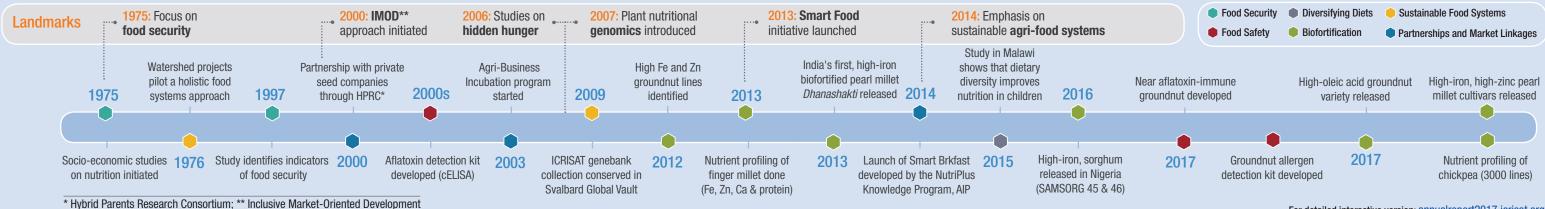


On-farm management techniques helped reduce contamination by:

70-84% in Mali (2003-2005)

62-94%

Nutrition milestones across 45 years



20,000 liters of wastewater is regenerated everday by a processing unit set up in Kothapally, Telangana, India.

Untreated wastewater, often used by farmers, comes with serious health risks

Breeding solutions for malnutrition and food safety

• high-iron sorghum cultivars released in Nigeria (2017) Bioavailability studies were conducted on biofortified pearl millet variety ICTP 8203 Fe.

Near aflatoxin-immune groundnut developed (2017)

Driving diet diversity from farms to homes

Increase in dietary diversity in a year,

Women/households

ICRISAT mandate crops were used in this project

Technologies for safer food and higher yields

in Anantapur, India (2013-2015)



Using treated wastewater, S Sailu grew crops all year through. Last summer, he harvested 600 kg sorghum from 0.1 ha



School children in Maharashtra, India eating high-iron pearl millet flatbread as part of their midday meal.



Ms Elizabeth Kanvote feeds her 17-month-old daughter sprouted pearl millet porridge in Kenya.



Groundnut varieties and books on aflatoxin control on display at a field day in Mali

For detailed interactive version: annualreport2017.icrisat.org

Communication initiatives

► Smart Food initiative



Wins top 10 Global Food Innovation

The Smart Food initiative was selected as one of the winning innovations for 2017 by **LAUNCH Food** which is supported by the U.S. Agency for International Development and the Australian Department of Foreign Affairs and Trade.



800,000 viewers per episode for reality TV show

A 13-episode Smart Food reality TV show was hosted by the Kenya Television Network, to raise awareness on sorghum, millets and legumes.



Aistou Cuisine becomes Smart Food Ambassador Senegalese chef based in Paris, Aistou Cuisine, developed recipes and championed Smart Food benefits through her social media.

473,222	876,437
people reached	impressions

5 videos produced 219.000 views 85.657 minutes of views ► ICRISAT timeline



Media coverage

423 regional news posts

58 global news placements, includes coverage in:

- BBC Jamie Oliver's Food Revolution
- The Guardian The Huffington Post
- Thomson Reuters Foundation News



▶ 27 Infographics

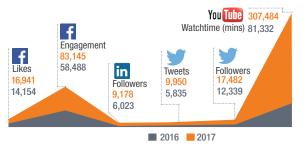


3 videos

- 19 videos in Youth in Agribusiness
- TAKE Highlights of Science Seminars
- **418** Research publications
- 201 Papers in ISI/Thomson Reuters listed journals
- **14** Monographs
- **38** Book chapters

8 Books and iournal volumes

Social media



Our people

ICRISAT Governing Board



Chair, ICRISAT GB

(From May 2017)

Britain.

Chandra A

Madramootoo, Canada Chair, ICRISAT GB (Till April 2017)



Wendy Umberger

India,

Vice Chair,

ICRISAT GB

Trilochan Mohapatra,

Rachel K Chikwamba Sissel Rogne South Africa Norway

Australia





Paco Sereme Burkina Faso

Laurie Tollefson Canada





India (from Jan 2017)

Financial summary

Top Ten Donors for 2017 (in US\$ thousands)



Contribution to grant revenue by project Size (in US\$ thousands) **5%** Small (<100) **15%** Medium (100-500) **80**% Large (>500)

Read the full report: annualreport2017.icrisat.org





- series
- ► Agri-buzz



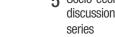


proceedings













David Bergvinson, Canada, Director General, ICRISAT



Oluwande Muoyo Nigeria



Shobhana Pattanayak India

Staff				
26 Nationalities				
6 USA, Europe and Australia	9 West and Central Africa			
4 Asia and Southeast Asia	7 Eastern and Southern Africa			
Age	-			
37% 31-40 years	20% 41-50 years			
17% upto 30 years	26% 51+ years			
Gender				
ര് 80%	♀ 20 %			
Knowledge sharing				

355 Learner participants

46%	44 %	10%
Interns	Scholars	Fellows

in US\$ thousands

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Balance Sheet				
	2017	2016		
Assets				
Cash and Cash Equivalents	22,221	22,882		
Investments	31,812	44,961		
Accounts Receivable	17,408	15,811		
Inventories	610	702		
Prepaid Expenses	346	295		
Property, Plant and Equipment	7,418	7,654		
Other Assets	3,212	2,884		
Total Assets	83,027	95,189		
Liabilities				
Accounts Payable	9,534	10,858		
Accruals and Provisions	2,913	2,157		
Deffered income from Donors	23,523	31,629		
Employees Payables/Provisions	2,714	3,695		
Total Liabilities	38,684	48,339		
Net Assets				
Unrestricted Net Assets				
- Undesignated	18,664	20,385		
- Designated	21,113	21,113		
Restricted Net Assets	4,058	4,061		
Temporary Net Assets - Other	508	1,291		
Comprehensive Income	508	1,291		
Total Net Assets	44,343	46,850		
Total Liabilities & Net Assets	83,027	95,189		

Read the full report: annualreport2017.icrisat.org

Vision

A prosperous, food-secure and resilient dryland tropics

• Mission

To reduce poverty, hunger, malnutrition and environmental degradation in the dryland tropics

Approach

Inclusive Market-Oriented Development (IMOD)



ICRISAT offices: HQ - Hyderabad, India; New Delhi, India; Bamako, Mali; Niamey, Niger; Kano, Nigeria; Bulawayo, Zimbabwe; Addis Ababa, Ethiopia; Nairobi, Kenya; Lilongwe, Malawi; Maputo, Mozambique.



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Front cover photo: C. Wangari, ICRISAT

Caption: Ms Elizabeth Kanyote and her 17-month-old daughter Seth Mukiri from Tharaka Nithi county in Kenya are among the over 6,000 participants of nutrition training under the Smart Food initiative in Kenya. These activities are supported by the United States Agency for International Development, Feed the Future Kenya Accelerated Value Chain Program.



Coordination: Parvinder Singh | Editorial and Design team: (Lead) Jemima Mandapati, Rajani Kumar and SK Meeravali | Web Edition: Fareeduddin M and Chandrasekhara Srinivas

Our work contributes towards the following SDGs

