



Feed the Future Innovation Lab For Livestock Systems: Phase I accomplishments

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#### **VISION**

To sustainably intensify livestock production to improve the nutrition, health, incomes and livelihoods of the poor





### **CATALYZING COLLABORATION**

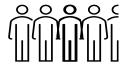


- 45 subaward projects
- 20 US universities and organizations
- 43 foreign universities, government agencies and NGOs



## BUILDING LOCAL CAPACITY

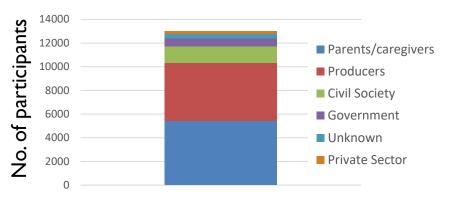
12,924 participated in our programs



44%



56%



**3,969** trained







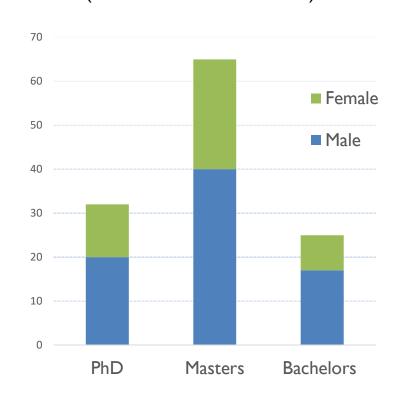




Dr. Jean Baptiste Ndahetuye, University of Rwanda, received the 2019 Student Researcher Award for Scientific Excellence from BIFAD.

# INVESTING IN THE FUTURE

Supported **I I 7** degree-seeking students (63% Male; 37% Female)

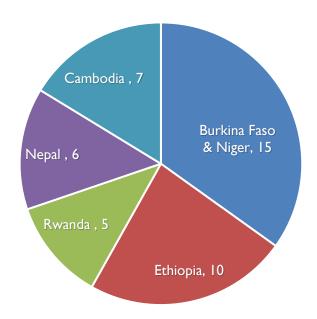


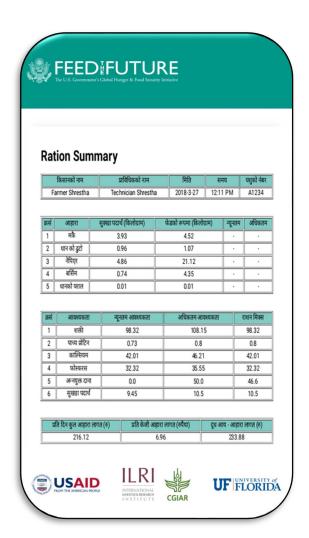


#### **INNOVATIONS DEVELOPED**

**43** novel practices, approaches and technologies developed

2,935 people are using our innovations



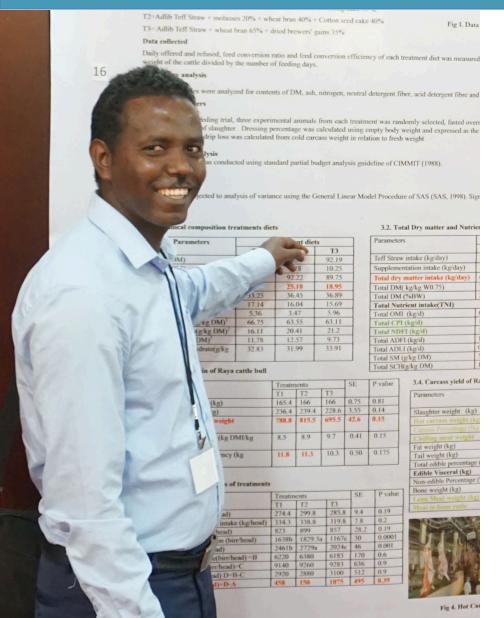




#### SOME OF OUR INNOVATIVE TECHNOLOGIES

- Diarrhea pathogen detection kit
- Aflatoxin detection kits
- Mastitis reduction package
- Improved forage hybrids
- Ration formulation app
- Disease reporting app

- NIRS feed analysis technique
- Methane emissions analysis equipment
- Market empowerment app
- Distance learning app
- Disease surveillance package
- Behavior messaging package



## THOUGHT LEADERSHIP

- > **250** publications/communication products
- 3 journal "special issues" on our work
- 30 journal papers published in 2020
- 40+ keynote presentations at professional meetings
- 66 subawardee presentations
- > 120 knowledge sharing events













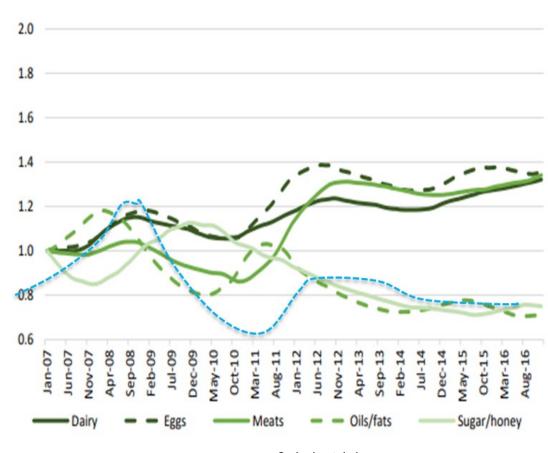


#### **GENERATING POLICY EVIDENCE**

#### **Ethiopia**

Demonstrated dramatic increases in ASF prices (real expenditures increased by 50%)

Price index (All prices set to 0 in 2007)





#### **IMPACTING POLICY**

#### Rwanda

- Detected high aflatoxin levels in purchased feeds
- Conducted national workshop to prevent /mitigate aflatoxin in food and feed
- Partners:
  - Ministry of Agriculture and Animal Resources
  - USAID/Rwanda Hinga Weze Activity
- Govt. aflatoxin task force now implementing recommendations.

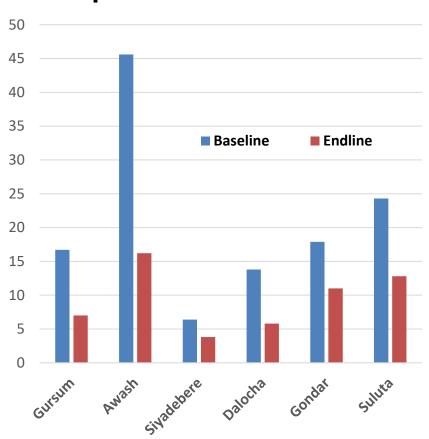






### **INCREASING RESILIENCE**

#### **Ethiopia**



**Reducing calf mortality** 



New drought-resistant sorghum genotypes for year-round feeding



#### **IMPROVING HEALTH**



#### Cambodia

Determined that each case of foodborne disease costs \$62.

#### Main diagnoses:

- Acute diarrhea (74.4%),
- Food poisoning (24.4%),
- Typhoid (0.8%)
- Chronic diarrhea (0.4%)

Now piloting food safety interventions.



### IMPROVING HEALTH AND NUTRITION

#### **Burkina Faso**

We increased infant egg consumption from 0 to 6 eggs weekly.

- This significantly reduced wasting.
- Results made the national news
- Discussed how to scale the approach with policy makers





### **WOMEN'S EMPOWERMENT**



#### Nepal

Compared to classroom training, our distance learning course helped **24**% more women become community animal health workers



### **INCREASING INCOMES**



#### Niger

We expanded market access for feed traders by linking them with livestock keepers 800 km away.

Feed costs were reduced by 30%

12.6 tons of feed sold in 4 months (\$3,600)

Ramana Doni earned 33% more money from sales of her (well-fed) sheep.



#### **SUMMARY**

• We are making a difference:

We have improved livestock productivity, reduced disease prevalence, empowered women, improved food safety, increased incomes, and improved nutrition.

- Special thanks to each of you for your many contributions.
- COVID-19 has made the need for our work much greater.
- We look forward to building on and expanding our work with you in Phase II.



## FEEDIFUTURE

The U.S. Government's Global Hunger & Food Security Initiative

www.feedthefuture.gov







