

# Webinar

## Collaboration Opportunities for Minority Serving Institutions

### in Phase II of the Livestock Systems Innovation Lab

Event held virtually on April 16, 2021

11:00 to 12:30 am EDT

FEED THE FUTURE INNOVATION LAB FOR LIVESTOCK SYSTEMS



## WELCOME AND OPENING REMARKS

### **Gbola Adesogan**

Director of the Feed the Future Innovation Lab  
for Livestock Systems and the Food Systems  
Institute, University of Florida, USA

### **Tyrell Kahan**

Agreement Office Representative  
United States Agency for International  
Development, USAID

## MEETING PURPOSE



1. Introduce LSIL Phase I research and local capacity development achievements;
2. Raise awareness among faculty at Minority Serving Institutions about the upcoming funding opportunities under LSIL Phase II;
3. Raise awareness about the opportunity to serve as reviewer on the Technical Evaluation Panel;
4. Describe the RFA process and eligibility criteria.



# FEED THE FUTURE INNOVATION LAB FOR LIVESTOCK SYSTEMS





# THE FEED THE FUTURE INITIATIVE

**Feed the Future:** the U.S. Government's global hunger and food security initiative, we're addressing the root causes of poverty, hunger and malnutrition and transforming lives.

<https://www.feedthefuture.gov/>

**Innovation Labs:** Led by U.S. universities, these Innovation Labs are central to advancing novel solutions that support our goals to reduce global hunger, poverty and undernutrition.

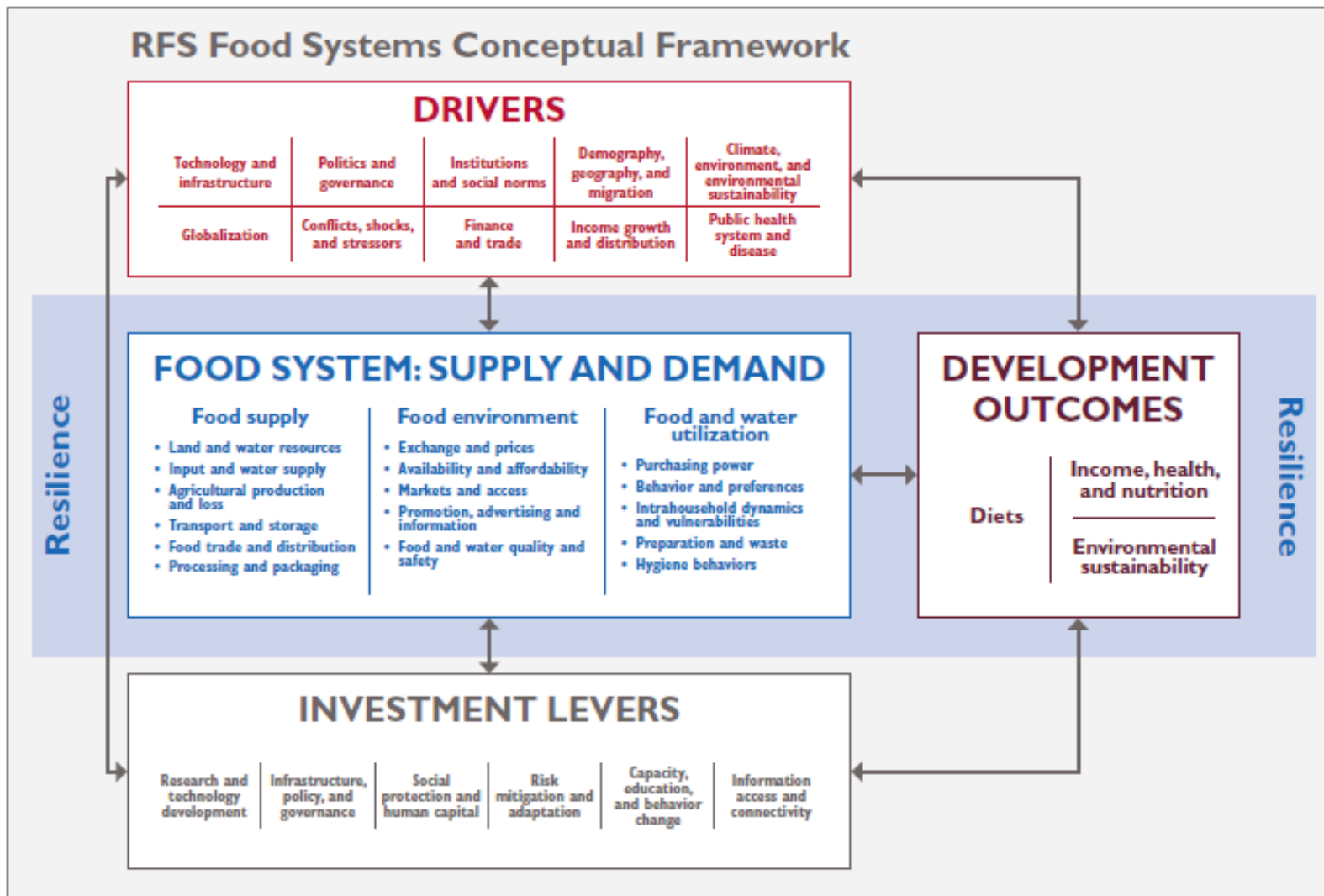
<https://www.feedthefuture.gov/feed-the-future-innovation-labs/>





# FEED THE FUTURE

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





## VISION

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

## MOTIVATION

### **Animal-source foods (ASF)**

- Are the best, high quality nutrient-rich food for 6-23 month olds (WHO, 2018)
- 59% of children are not fed much-needed nutrients from ASF (UNICEF, 2020)



# CATALYZING COLLABORATION

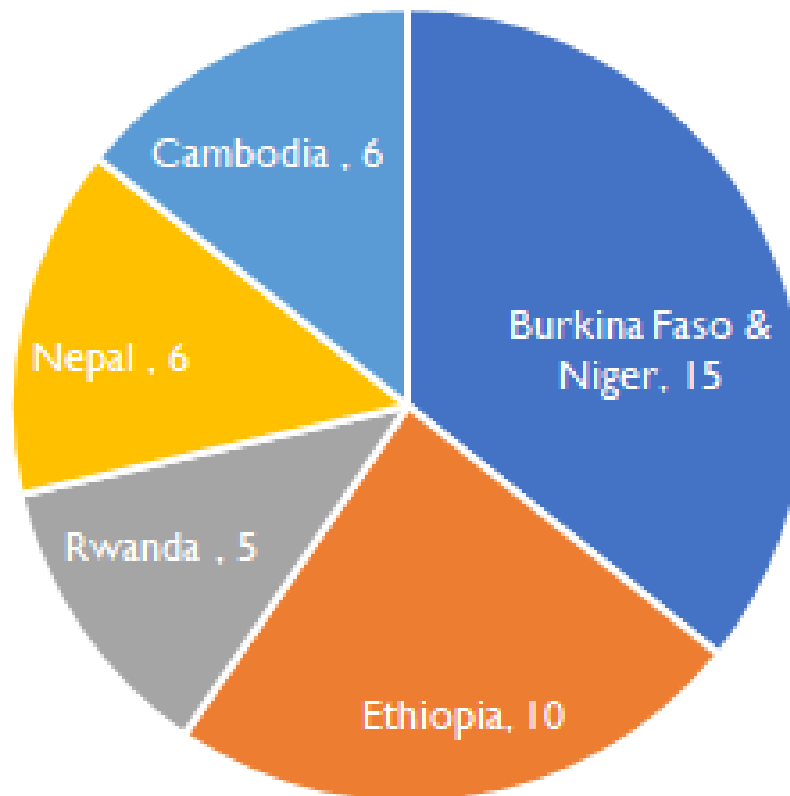



- 45 field-to-fork research for development projects in 8 countries
- 20 US universities and organizations
- 43 foreign universities, government agencies and NGOs

# INNOVATIONS DEVELOPED

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

**2,935** people are using our innovations





**FEED THE FUTURE**  
The U.S. Government's Global Hunger & Food Security Initiative

### Ration Summary

किसानको नाम	प्राविधिकको नाम	मिति	समय	फार्मको नंबर
Farmer Shrestha	Technician Shrestha	2018-3-27	12:11 PM	A1234





क्रसं	आहारा	सुख्खा पदार्थ (किलोग्राम)	फेडको रूपमा (किलोग्राम)	न्यूनतम	अधिकतम
1	मकै	3.93	4.52	-	-
2	धान को टुटो	0.96	1.07	-	-
3	मैदे	4.86	21.12	-	-
4	बसिम	0.74	4.35	-	-
5	धानको पाल	0.01	0.01	-	-

क्रसं	आवश्यकता	न्यूनतम आवश्यकता	अधिकतम आवश्यकता	राशन मिश्र
1	शक्ती	98.32	108.15	98.32
2	पाच्य प्रोटीन	0.73	0.8	0.8
3	काल्शियम	42.01	46.21	42.01
4	फोस्फोरस	32.32	35.55	32.32
5	अन्युक्त दान	0.0	50.0	46.6
6	सुख्खा पदार्थ	9.45	10.5	10.5

प्रति दिन कुल आहारा लगत (रु)	प्रति केजी आहारा लगत (रु/का)	दुध अथवा - आहारा लगत (रु)
216.12	6.96	233.88

## SOME OF OUR INNOVATIVE TECHNOLOGIES

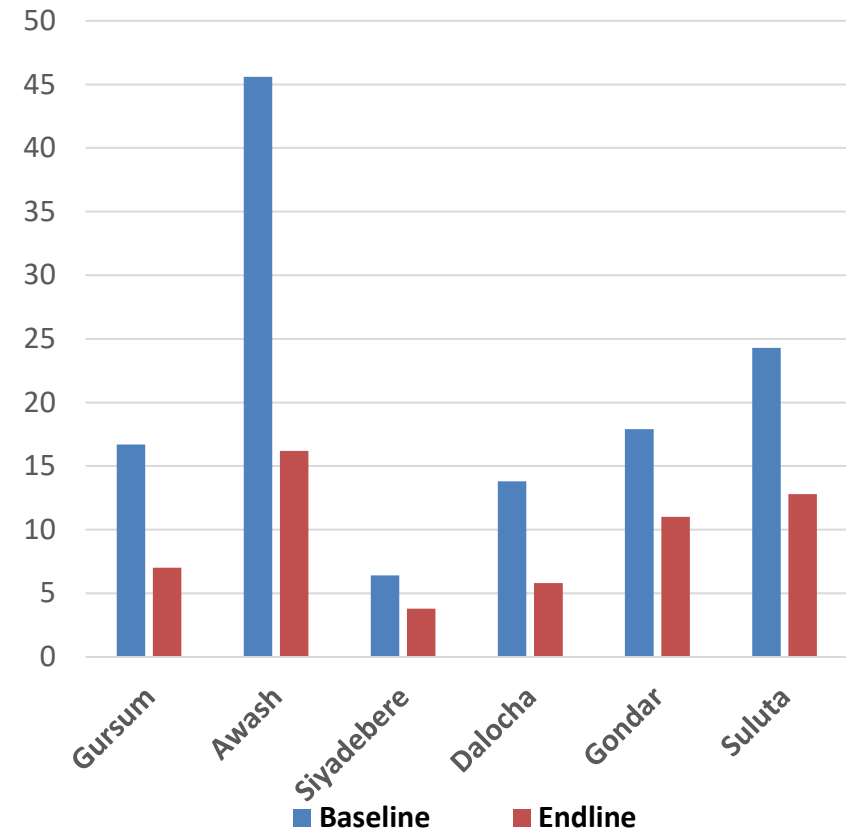
- Diarrhea pathogen detection kit
- Aflatoxin detection kits
- Mastitis reduction package
- Improved forage hybrids
- Ration formulation app
- Disease reporting app
- NIRS feed analysis technique
- Methane emissions analysis equipment
- Market empowerment app
- Distance learning app
- Disease surveillance package
- Behavior messaging package





**New drought-resistant sorghum genotypes for year-round feeding**

## INCREASING RESILIENCE



**Reducing calf mortality**

# IMPROVING FOOD SAFETY AND 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 scaling out food safety interventions



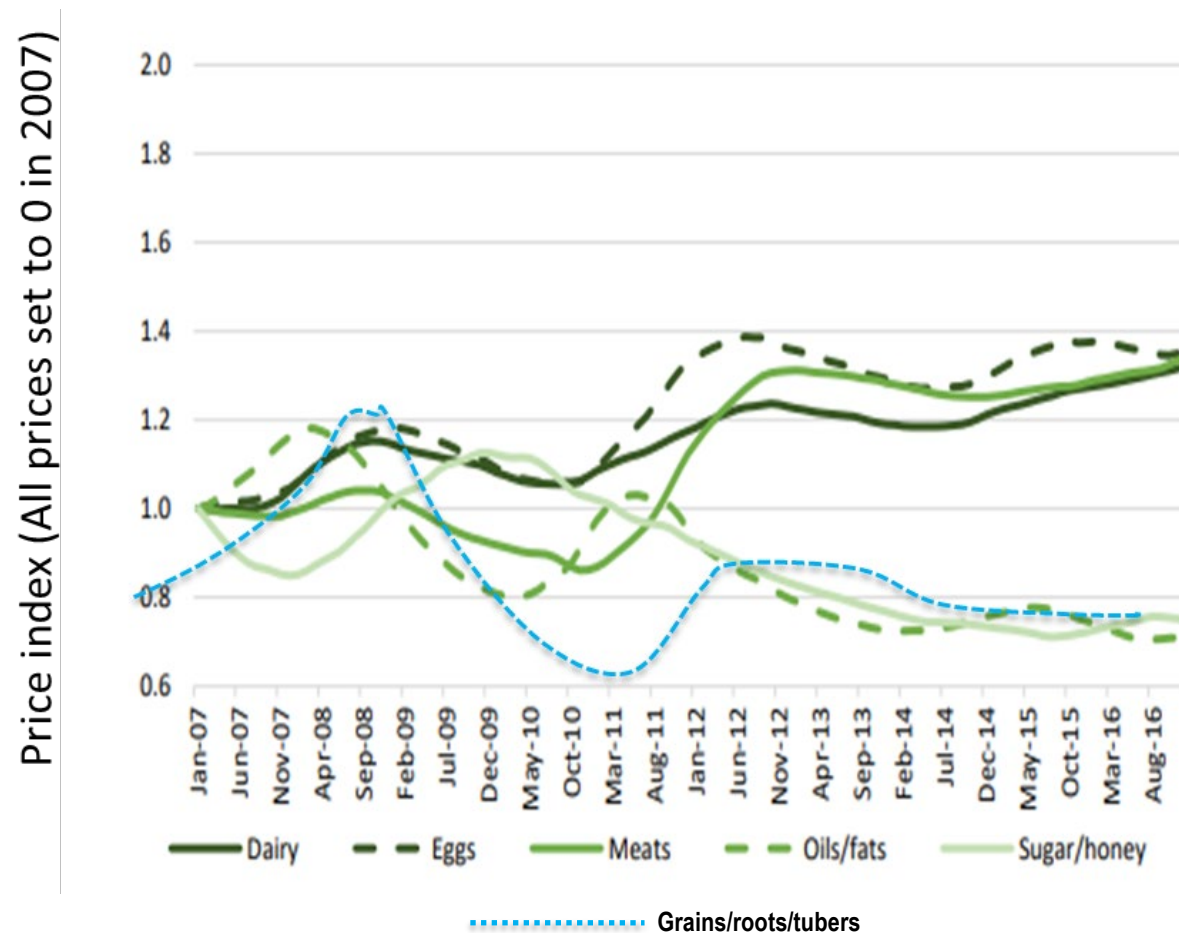


## GENERATING POLICY EVIDENCE



ETHIOPIA

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







## 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.

# 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.







## IMPROVING HEALTH AND NUTRITION



**BURKINA FASO**

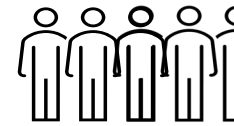
We increased infant egg consumption from 0 to 6 eggs weekly,

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

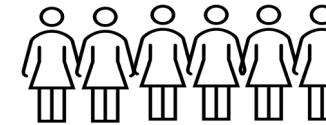


## BUILDING LOCAL CAPACITY

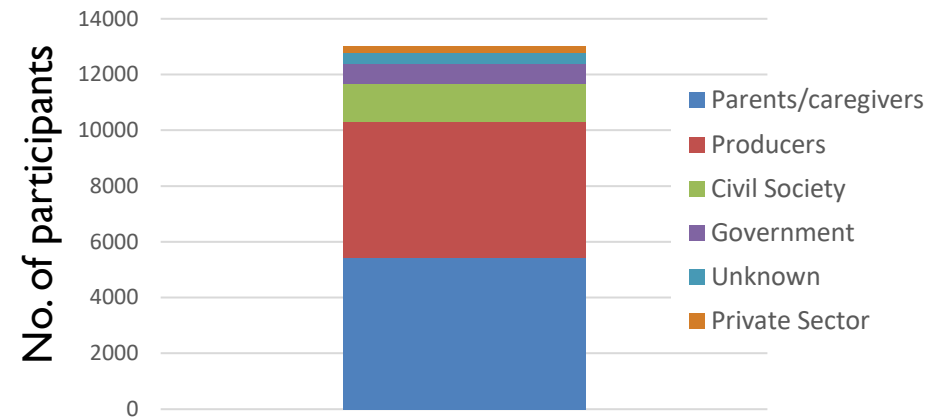
**12,924** participated in our programs



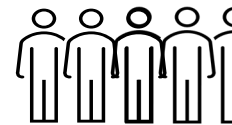
44%



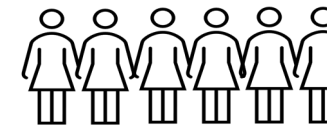
56%



**3,969** trained



47%



53%

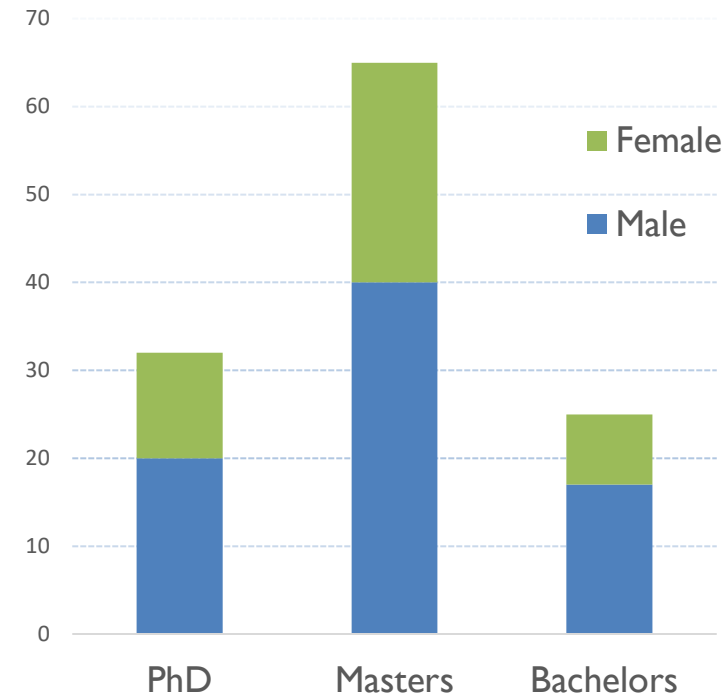




**Dr. Jean Baptiste Ndahetuye, University of Rwanda**  
**Received the 2019 Student Researcher Award for**  
**Scientific Excellence from BIFAD.**

## INVESTING IN THE FUTURE

Supported **117** degree-seeking students  
(63% Male; 37% Female)

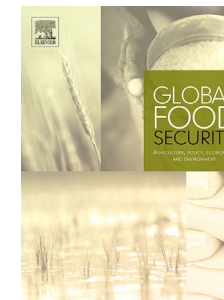
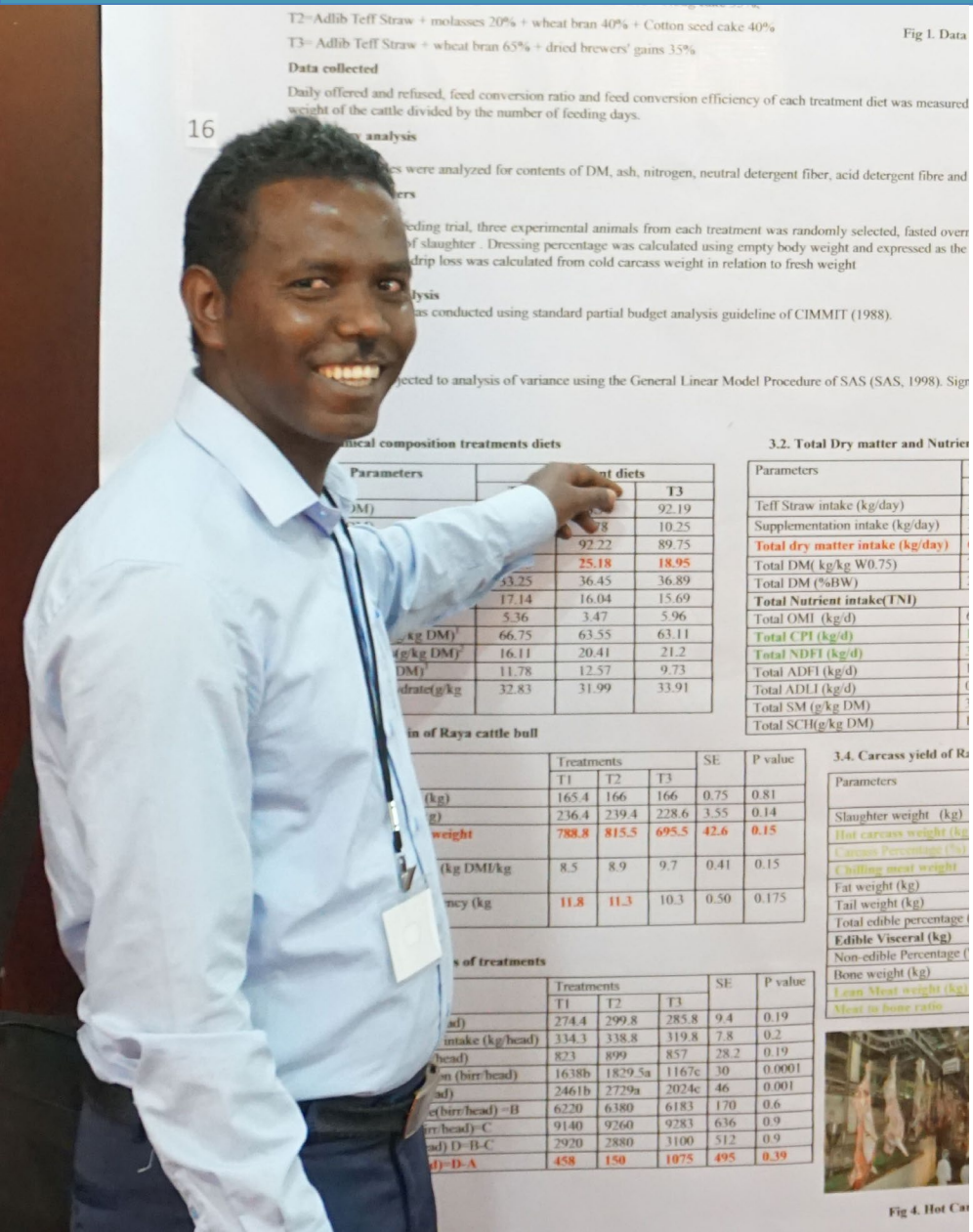






## THOUGHT LEADERSHIP

- > **250** publications/communication products
  - **3** journal “special issues” on LSIL work
  - **50** journal papers published to date
  - **40+** keynote presentations at professional meetings
  - **66** subawardee presentations
- > **120** knowledge sharing events



## WHY SHOULD I PARTNER WITH LSIL?

- Make a lasting difference in the lives of some of the most vulnerable people
- Become a more informed global citizen, enhance your cultural competencies
- Expand your networks, perspectives and knowledge and those of your students
- Share your expertise in teaching, research, community engagement, outreach/extension
- Help evaluate research and capacity building proposals
- Add global dimensions to your teaching, research and outreach
- Opportunity to travel and learn about other cultures, cuisines and lifestyles

## PHASE II

## RESEARCH PRIORITIES



## PRIORITY LIVESTOCK SPECIES

Target country	Priority livestock species	Other relevant livestock species
<b>Burkina Faso</b>	Small ruminants	Poultry (chicken, guinea fowl)
<b>Niger</b>	Small ruminants	Poultry (chicken, guinea fowl)
<b>Ethiopia</b>	Dairy cattle	Poultry (chicken), small ruminants
<b>Rwanda</b>	Dairy cattle	Poultry (chicken), small ruminants, pigs
<b>Nepal</b>	Goats	Dairy cattle & buffaloes

# LSIL RESEARCH PORTFOLIO

## Phase I Focus

- improve livestock feeds and feeding
- increase ASF consumption
- improve livestock disease surveillance and mitigation
- strengthen markets
- improve food safety
- foster a conducive livestock policy environment

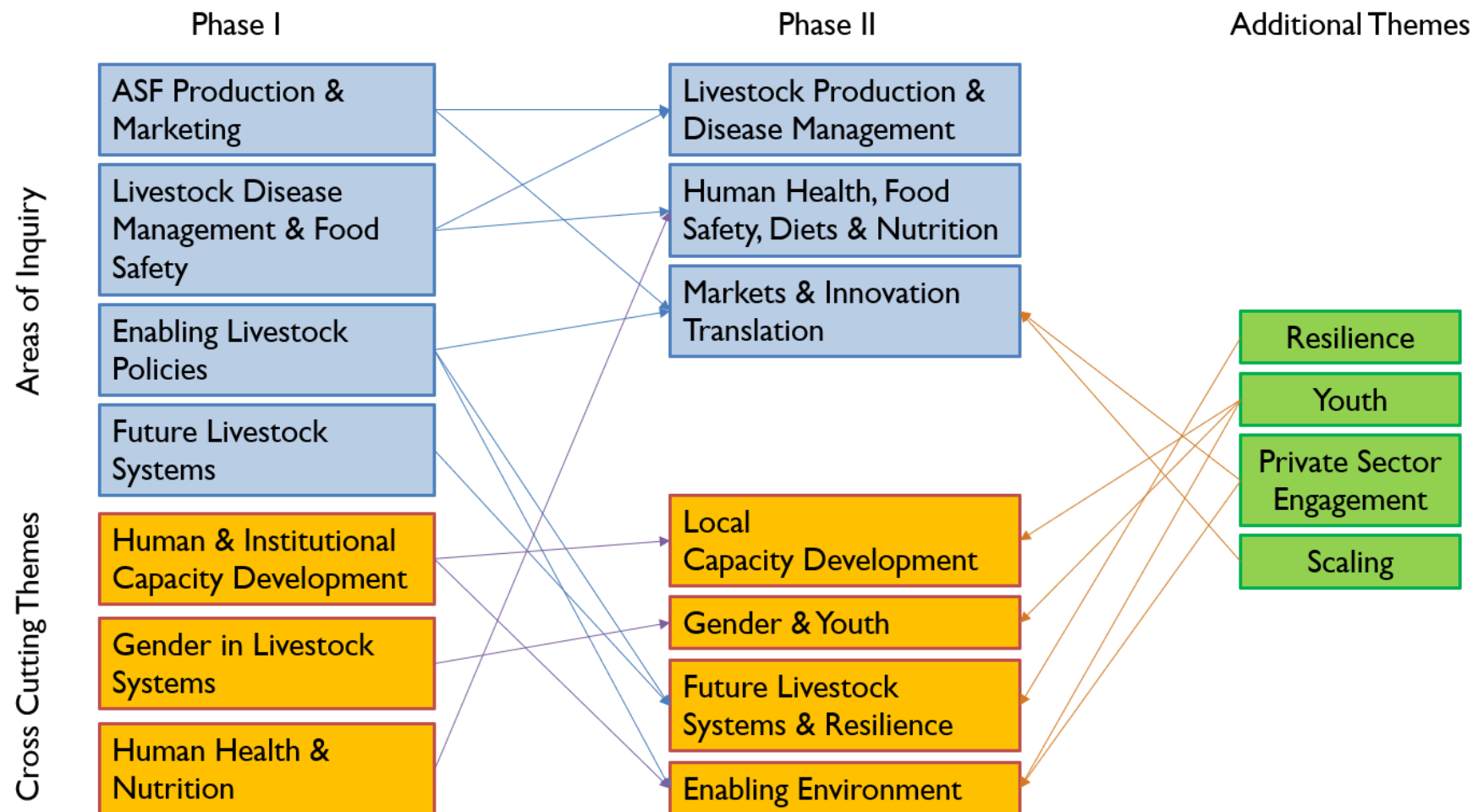
## Phase II Focus

Continue working in Phase I areas but stronger emphasis on systems approaches to improve dietary diversity and adequacy with ASF by:

- reducing ASF production costs,
- increasing ASF safety and markets,
- reducing ASF consumption barriers.

More research on ASF production and consumption on gut health to improve nutritional outcomes.

# TECHNICAL APPROACH





# LIVESTOCK PRODUCTION & DISEASE MANAGEMENT



**GEOFFREY E. DAHL**

**Co-Lead**

*Professor, Department of Animal Sciences*

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**JORGE A. HERNÁNDEZ**

**Co-Lead**

*Professor, Dept. of Large Animal Clinical Sciences*

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## LIVESTOCK PRODUCTION & DISEASE MANAGEMENT

### **Livestock production:**

- Resilient livestock systems
- Feed price-quality relationship
- Milk preservation
- Reducing production costs to reduce ASF prices

### **Disease management:**

- Improved disease management
- Epidemiology and economics
- Private, Public and Public-Private Partnerships

# HUMAN HEALTH, FOOD SAFETY, DIETS & NUTRITION



**SARAH MCKUNE**

**Co-Lead**

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and Global Health & Center for African Studies*

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**ARIE HENDRIK HAVELAAR**

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# HUMAN HEALTH, FOOD SAFETY, DIETS AND NUTRITION



## **Safe livestock production and food safety**

- Human-livestock interactions
- Food safety
- Risk assessment

## **ASF consumption, dietary diversity and adequacy**

- ASF production impact
- Barriers to ASF consumption
- Behavioral change for ASF consumption

# MARKETS AND INNOVATION TRANSLATION



**CONNER MULLALLY**

**Lead**

*Assistant Professor*

Food and Resource Economics

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# MARKETS & INNOVATION TRANSLATION

- ASF marketing
- ASF pricing
- Market performance
- Market-based solutions
- Scaling of innovations





## LOCAL CAPACITY DEVELOPMENT

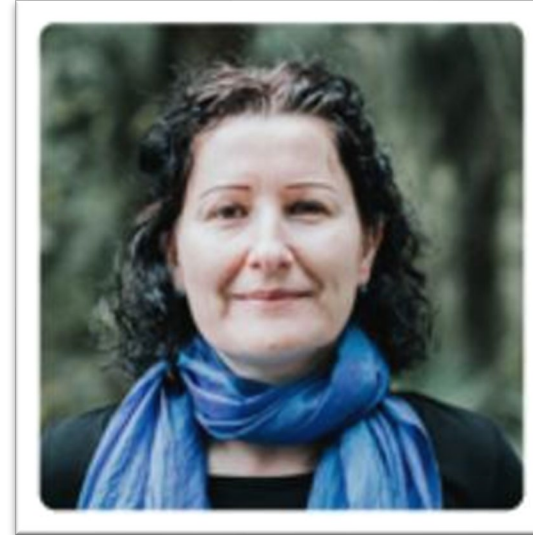


**SANDRA RUSSO**

**Co-Lead,**

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**NARGIZA LUDGATE**

**Co-Lead**

*Assistant Scholar, Office for Global Research  
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## LOCAL CAPACITY DEVELOPMENT

- Engaging partners and policymakers through the Capacity Development for Agricultural Innovation Systems (CDAIS) process
- Leveraging local knowledge, experience and networks for system-wide change through local capacity development initiatives
- Supporting capacity development efforts of partner institutions

## GENDER & YOUTH



**KATHLEEN COLVERSON**

**Lead**

*Associate Research Scientist*

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## GENDER & YOUTH

- Women and youth engagement
- Women's empowerment
- Entrepreneurship and private sector engagement
- Gender and nutrition



# FUTURE LIVESTOCK SYSTEMS & RESILIENCE



**GREG KIKER**

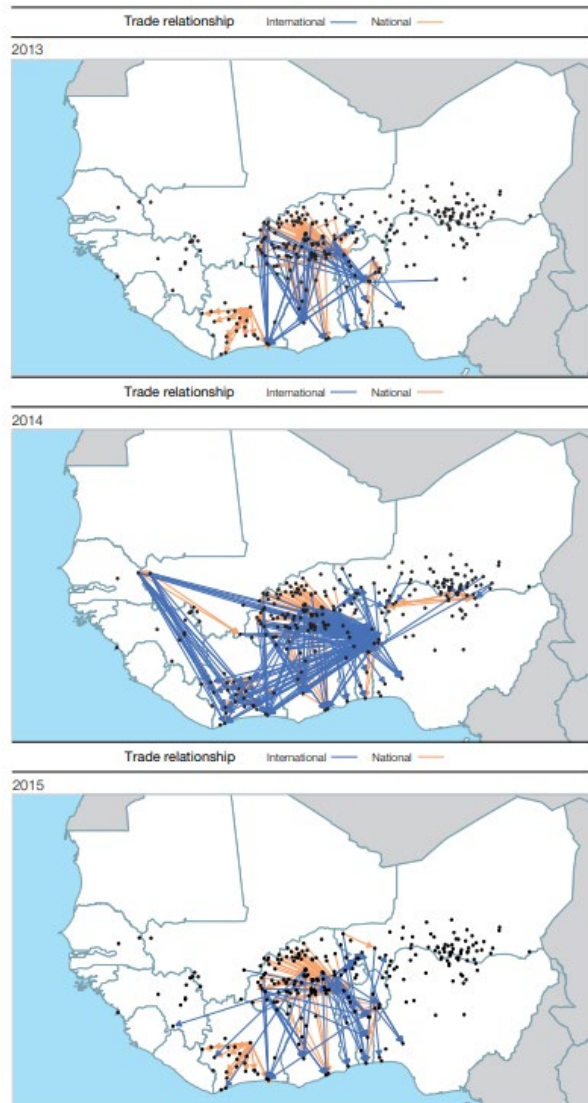
**Lead**

*Associate Professor*

Dept. of Agricultural and Biological Engineering

[gkiker@ufl.edu](mailto:gkiker@ufl.edu)

Livestock trade network by year and type of trade relationship (cross-border or national)



## FUTURE LIVESTOCK SYSTEMS & RESILIENCE

- Future of pastoralism
- Resilient forage systems
- Resilient ASF value chains and networks



## ENABLING ENVIRONMENT



**RENATA SERRA**

**Lead**

*Senior Lecturer*

*Center for African Studies*

[rserra@ufl.edu](mailto:rserra@ufl.edu)

## ENABLING ENVIRONMENT

- Support policy processes that strengthen the institutional environment for livestock through improved dialogue and collaboration between livestock sector stakeholders
- Assess the impact of existing/potential policies on ASF production and consumption



## MONITORING AND EVALUATION



**SEBASTIAN GALINDO**

**Technical Monitoring and Evaluation Supervisor**

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**ERICA ODERA**

**Monitoring & Evaluation**

*Associate Scientist*

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## Q&A

## COLLABORATION OPPORTUNITIES

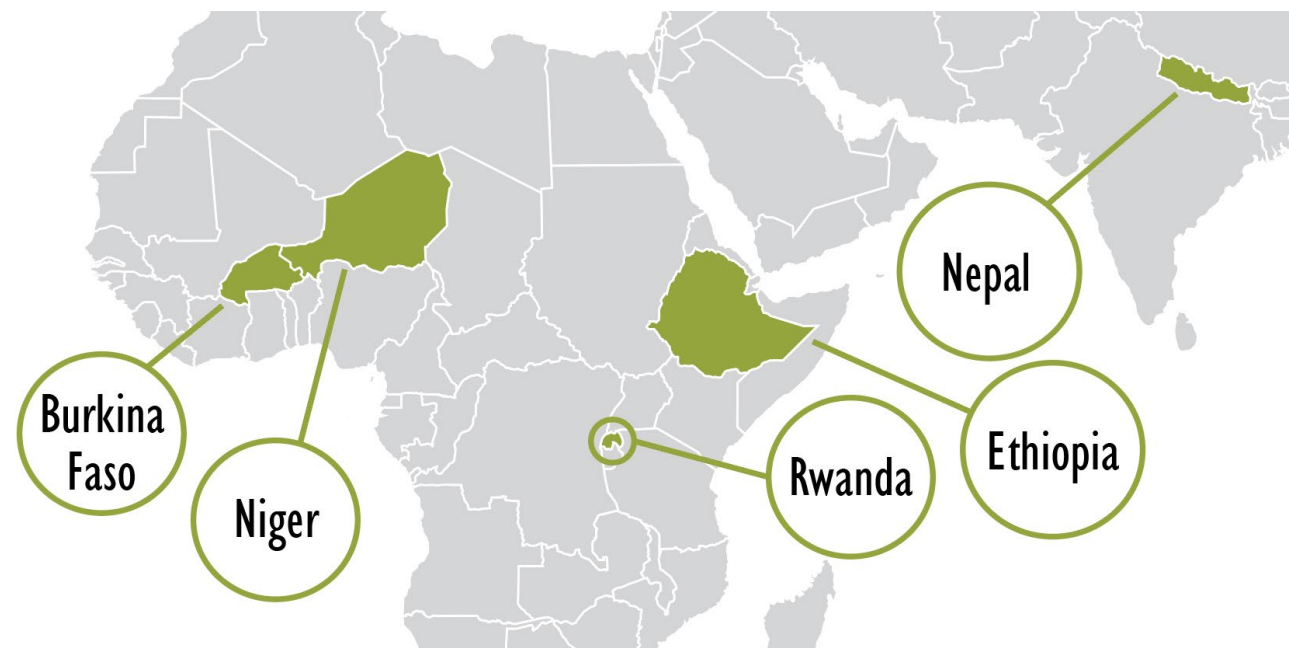
- as **research partner on competitively awarded grants**  
(as direct applicant or member of a consortium/team)
- as **local capacity development partner**  
(forthcoming RFA)
- as member of the **Technical Evaluation Panel**

## TYPES OF RESEARCH PROJECTS IN PHASE II

**This year we aim to award**

- in each target country -

- **1 longer term REACH project**  
(multiple AOIs)
- **2-3 short-term FOCUS projects**  
(at least one AOI)



### **Future**

- Local Capacity Development



## APPLICATION PROCESS

Activity	Approximate timing
Information Webinars	First half of April
Release date	May
Deadline for submission of written questions	14 days after release date
Date for posting of responses to written questions	48 hours after submission of written questions deadline
Deadline for submission of concept notes*	1 month after release date
Invitations sent for full proposals	2 weeks after deadline for submission of concept notes
Deadline for submission of full proposals* (to be confirmed with invited applicants)	6 weeks after invitations are sent
Anticipated award notifications	August/September
Anticipated start date of awards	October/ November

\*Concept note and full proposal submissions only through Piestar RFX proposal submission platform:  
<https://rfx.piestar.com/opportunities/livestock>

## ELIGIBILITY & TEAM COMPOSITION

- Target country & US/Western research institutions
- Inclusion of Minority Serving Institutions highly encouraged
- Private sector, civil society, non-governmental organizations



## STRONG PARTNERSHIPS ARE KEY TO SUCCESS

- Possess complementary technical skills
- Have longstanding experience and network of contacts in target country
- Can navigate ethical clearance and fulfill compliance needs
- Are suitable bridging or scaling partner

# ABOUT THE TECHNICAL EVALUATION PANEL

- **Independent team of experts**  
appointed by the LSIL Management Entity to provide a rigorous, impartial technical assessment of proposals prepared in response to LSIL's RFA and to score them.
- **Review of full proposals:** To start by the end of June 2021
- **Modest honorarium**



## FIND OUT MORE

- Resources from **webinar for prospect subaward organizations** in Phase II:  
<https://livestocklab.ifas.ufl.edu/events/prerfa/>
- **Country specific pages** (lists projects, links to research teams, in-country partners):  
<https://livestocklab.ifas.ufl.edu/countries/>
- **Areas of Inquiry** and **Cross-Cutting Themes**:  
<https://livestocklab.ifas.ufl.edu/themes/>
- **Journal articles**, based on LSIL funded research:  
<https://livestocklab.ifas.ufl.edu/resources/articles-in-journals/>
- Examples of our **US based partners** are listed at:  
<https://livestocklab.ifas.ufl.edu/about-us/partners/#d.en.536073>

***Let us know  
if you wish to  
be added!***



# FEED<sup>THE</sup>FUTURE

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## Q&A

## NEXT STEPS

### Complete

Event evaluation [survey](#)

### Follow up

[livestock-lab@ufl.edu](mailto:livestock-lab@ufl.edu)

- Send questions
- Ask to be listed as prospective partner
- Indicate interest in TEP

### Stay tuned

Join the mailing list (newsletter)  
<https://livestocklab.ifas.ufl.edu/contact>

### May 2021

Anticipate release of the RFA





## CLOSING REMARKS

**Dr. Gbola Adesogan**



## Disclaimer

This work was funded in whole or part by the United States Agency for International Development (USAID) Bureau for Food Security under Agreement # AID-OAA-L-15-00003 as part of Feed the Future Innovation Lab for Livestock Systems. Any opinions, findings, conclusions, or recommendations expressed here are those of the presenters alone.



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