



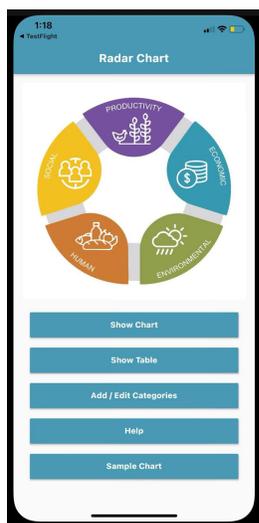
# FEED THE FUTURE

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

## July | News & Updates

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### SI Toolkit App - Now Available!



The SI Toolkit app is an interactive version of the Sustainable Intensification Assessment Framework. The Toolkit was created by the USAID Feed the Future Innovation Lab for Collaborative Research on Sustainable Intensification (SIIL). The app is now available on Apple and Android products.

[Learn more about the SI Toolkit App here!](#)

### Policy Research Consortium Organized ICABR Session

The Policy Research Consortium (PRC) at Rutgers University organized a session called "Policies for Resilient Food and Agricultural Systems in Low and Middle Income Countries."

This session included approximately 25 participants in-person in Italy, with additional participants joining online from Europe, U.S., Central America and Africa.

Included in the session that PRC organized for the event was a new paper presented by Jock Anderson that can be read [here](#). Anderson emphasizes the consideration of policy issues regarding transformation on adaptation to climate change. He states that the need for adaptation will be greatest amongst the lower-income producers in the poorest tropical countries.

**Farming Systems and Food Security in Africa: Priorities for science and policy under global change.**

"Knowledge of Africa's complex farming systems, set in their socio-economic and environmental context, is an essential ingredient to developing effective strategies for improving food and nutrition security. This book systematically and comprehensively describes the characteristics, trends, drivers of change and strategic priorities for each of Africa's fifteen farming systems and their main subsystems. It shows how a farming systems perspective can be used to identify pathways to household food security and poverty reduction, and how strategic interventions may need to differ from one farming system to another. In the analysis, emphasis is placed on understanding farming systems drivers of change, trends and strategic priorities for science and policy."

[Read Book Here!](#)

## Student and Intern Highlights



**Kamrul Hasan**

*ASMIH-Bangladesh*

*Kamrul is earning his P.h.D. in Agricultural Engineering at Sylhet Agricultural University.*

"Due to the lack of awareness that stakeholders have surrounding modern harvesting technologies and inadequate road facilities, I struggled to carry out my research successfully. ASMIH-Bangladesh research has guided and inspired me continuously to conduct the research using systematic approaches and design. Through their guidance, I got a wonderful opportunity to conduct the research through a 6-month doctoral program.



**Yacine Gueye**

*Improving Food and Nutrition Security in Senegal and Niger*

*Yacine is earning her Master's Degree at the University of Theies.*

"Like all researchers, we had to encounter difficulties during the course of carrying out our work. Our biggest complication was due to a huge delay on the starting of the tests. These delays were related to the acquisition of animals and inputs to be used in the study as well. Another challenge we faced was related to the cutting of the millet stems. Along with the number of bull calves used and their high needs compared to the number of items

Because of the inspiration and support, I was able to publish 7 research articles in recognized national and international journals as a first author and presented papers in the national conference."



**Tara Ippolito**

*Digital and Geospatial Farming Systems Tools*

*Tara is earning her P.h.D in Environmental Studies at the College of Arts and Sciences at the University of Colorado, Boulder.*

Tara is working on a project that involves making land capability classification maps in Senegal. Tara utilizes digital soil data and gives a high-level overview of how suitable the soils are for agriculture and what the preliminary limitations are. One of the main components of her work focuses specifically on exploring long-term biophysical drought limitations. She is utilizing AquaCrop crop growth model to assess the effect of environment and management on drought vulnerability.

Moving forward, she is hoping to build a scalable tool that can be utilized by farmers for decision-making purposes.

produced. Fortunately, we were able to get a biomass chopper, which helped, in cutting the millet biomass."



**Prak Kea**

*CE SAIN Cambodia*

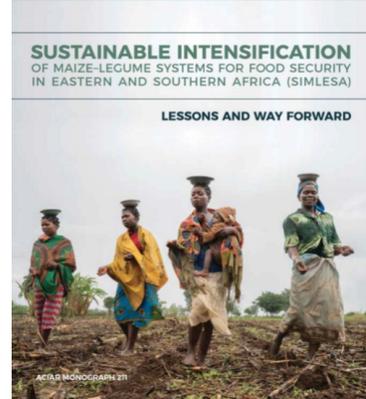
*Prak is earning his P.h.D. in Animal Science at Royal University of Agriculture*

The biggest setback during my research experiments was the inadequate technical and equipment support for measuring the analysis of the samples in the lab. Moreover, infectious diseases were outbreak on my animals, especially the Classical Swine Fever (CSF) that caused my research to finish prior to planned. What has inspired me to continue my research is the results from the research that may resolve the issues of feed shortage and be beneficial for the animal producers and be able to improve animal productivities in the future in Cambodia.

## Sustainable Intensification of Maize-Legume Systems Book

The Sustainable Intensification of Maize-Legume Systems for Food Security in Eastern and Southern Africa (SIMLESA) book examines the synthesis of selected results and lessons, reflecting the hard work and lessons learned by more than 60 African and 15 international and Australian scientists. The 26 chapters of this book build on the results of the SIMLESA

program, identifying possible ways forward for sustainable intensification.



[Read Book Here](#)

## Awards and Recognitions



Hardeep Singh, an outstanding student at Oklahoma State University, was awarded the 2021 Outstanding Ph.D. Student in Plant and Soil Sciences. Hardeep works as a Research Associate at SILL at Kansas State University. His research focuses on testing different crop rotations for cropping system diversification in Southern Great Plains and lowering down greenhouse gas emissions from cover crop incorporation.



**Dr. Ignacio Ciampitti**  
Farming Systems



**Dr. Krishna Jagadish**  
Crop Ecophysiology

SILL would like to congratulate Dr. Ignacio Ciampitti and Dr. Krishna Jagadish for being promoted from Associate Professors to full Professors in their respective fields in the Agronomy department!

# Focus Country Highlight - CE SAIN



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Center of Excellence on Sustainable Agricultural Intensification and Nutrition

Watch our overview highlight video to learn more about CE SAIN in Cambodia!

