



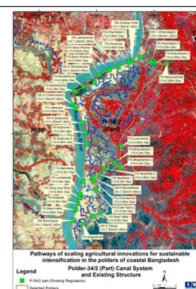
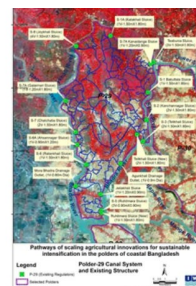
# FEED THE FUTURE

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

## August | News & Updates

### Project Update: Pathways of Scaling Agriculture in the Polders of Coastal Bangladesh

The polders team prepared land elevation maps of the study polders to improve water governance for scaling agricultural innovations in the polder zone. While also establishing 17 learning hubs in Aman and Rabi seasons to enhance peer-to-peer learnings on improved cropping through in-polder water management. The maps are of the canal system and the existing structure of the study polders.



Click the link below to read Polder Tidings which includes articles from many different stakeholders working in the polders of the coastal zone of Bangladesh.

[Read Articles Here](#)

### Student and Intern Highlights



### **Yacine Gueye**

*Improving Food and Nutrition Security in Senegal and Niger.*

SIIL -ENSA student Yacine Gueye recently defended her MSC thesis at the National High School of Agronomy at the University of Thies on the topic “*Dual-purpose millet biomass contribution in the livestock production system of the north peanut basin of Senegal: Developing Dual purpose millet biomass feeding ration for growing Gobra young bulls*”. Yacine received the highest praise and classification from the committee for her work. Yacine’s study addressed one part of SIIL instruction on the effect of Dual-purpose millet biomass on animal weight gain and ENSA will engage very soon in another study on the contribution of milk production.



### **Surajit Sarkar**

*ASMIH - Bangladesh*

*Surajit is earning his Ph.D. in Agricultural Engineering at Karnaphuil Ltd in Bangladesh.*

I work with mechanical transplanting of rice which is a new technology in Bangladesh. The biggest challenges of my research are related to the adaptation of rice transplanter in the southern delta of Bangladesh where waterlogging and salinity, as well as the mindset of the farmers. It's also a big challenge to grow healthy rice seedlings especially in the cold weather and during heavy rain. ASMIH-Bangladesh research team has inspired me continuously to overcome the problems by innovating approaches to conduct research. Through their guidance, I tested different transplanting machines in various conditions and developed guidelines to overcome barriers to successful transplanting.

## **Land Use and Land Cover and Its Impact on Soil Erosion**

'Land Use and Land Cover Change and Its Impact on Soil Erosion in Stung Sangkae Catchment of Cambodia' is a scholarly paper written by P.h.D. scholar, Nareth Nut. Nareth has studied Agricultural Engineering at Royal University in Cambodia. The article examines agricultural expansion and urban development without proper soil erosion control measures have become major environmental problems in Cambodia due to a high growth population and increased economic activities.

[Read Full Paper Here](#)

## **Importance of Developing a Data Set Repository in Senegal**

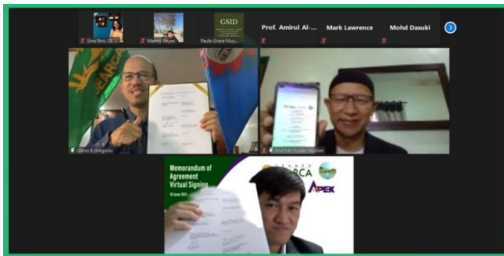
Plant Health Doctoral student at the University of



Nebraska-Lincoln. Fortner is working with The Digital Tools, Geospatial and Farming Systems Consortium which is funded by the Feed the Future Innovation Lab for Collaborative Research on Sustainable Intensification on a project called “Synthesizing agriculture datasets for developing research inventory focused on Senegal”

The purpose of this project is to develop a repository for all relevant agricultural datasets in Senegal. According to Nathan, “the main work is to explore what information is available, collect all the data that can be used, classify the information in extensiveness, quality, richness, location, and relevance, and then, detect what information is missing, and finally identify those areas that researchers can work on. Nathan values this project because a lot of information is getting “overlooked” most of the time.

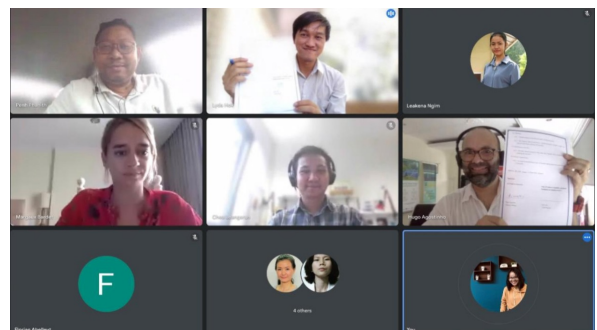
## Project Update: CE SAIN Cambodia



The Center of Excellence on Sustainable Agricultural Intensification and Nutrition (CE SAIN), the Universiti Sains Malaysia, and the Southeast Asian Regional Center for Graduate Study and Research in Agriculture had a virtual signing ceremony on Memorandum of Agreement to provide partnership support and strengthen the educational program of graduate study in the agricultural research and development under the project of ‘Development of Innovative and Sustainable Aquafeed Using Local Agro-Residual Resources’.

[Read More Here](#)

CE SAIN Cambodia of the Royal University of Agriculture and the People in Need Cambodia on behalf of SWITCH to Solar consortium conducted a virtual signing on the MOU for the cooperation to develop and support the demonstration of solar technologies for productive use in the agriculture and fisheries sector in Cambodia. The SWITCH to Solar project will productively and strategically demonstrate solar technologies and promote them amongst agriculture and fisheries MSMEs in the country.



them amongst agriculture and fisheries MSMEs in the country.

# Opportunities for Livestock Farming in West Africa

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UNIVERSITY

## Current and Future Challenges and Opportunities for Livestock Farming in West Africa: Case Study of Senegal

Rasu Eeswaran, A. Pouyan Nejadhashemi, Aliou Faye, Doohong  
Min, P.V. Vara Prasad, Ignacio A. Ciampitti



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Click on the image to watch a video  
shared from the Digital Tools,  
Geospatial and Farming Systems  
Consortium about the current and future  
opportunities of livestock farming in  
West Africa.



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Collaborative Research on  
Sustainable Intensification

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