



Feed the Future Innovation Lab for Legume Systems Research Annual Global A Convening February 16-18, 2021





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From the Director

To say 2020 has been an unprecedented year is an understatement. The Coronavirus impact has been far reaching; the Legume Systems Innovation Lab is no exception. In February 2020, the Lab hosted over 50 stakeholders in Saly, Senegal to share the work of funded projects and contribute to the global strategy for identifying the best technologies for legume system scaling and impact. We had no idea that in a few short weeks the energy of the convening would be drained by COVID-19. We all began a journey, that over a year later, we are still deep within. As I reflect, I am constantly overwhelmed by the resilience and fortitude of our researchers and team members as they find new and innovative ways to keep the important work of the Legume Lab moving forward while keeping themselves and their colleagues safe.

Our Global Convening 2021, originally scheduled to take place on the campus of Michigan State University, transitioned to an allvirtual event and was held February 16-18. The three days we spent together looked a bit different from the previous year's event, but the excitement and energy of the research and innovation was not overshadowed. We are and will, continue to look for opportunities to address nutrition, gender and youth needs, and ensure greater resilience of people and systems under stress and shocks while contributing to the development of human and institutional capacity for a resilient agricultural system.

Regards, Barry Pittendrigh, Director, Feed the Future Innovation Lab for Legume Systems Research

Overview

The Feed the Future Innovation Lab for Legume Systems Research is a five-year research capacity building development program managed by Michigan State University that focuses on grain legumes in West and Southern Africa. Legumes are a nutrient-dense staple crop that have multifunctional roles in smallholder farm systems in developing countries including food and nutrition security, generating income, providing livestock feed and fodder, and contributing to the sustainability of soil systems through their nitrogen-fixing capabilities. Cowpea and common bean are the focal crops of the Legume Systems Innovation Lab.

The strength of the Legume Systems Innovation Lab's design lies in its innovative and vibrant research to scaling strategy using a systems approach. Supported projects are diverse in research focus and address both the development and placement of innovative technologies with a thorough understanding of the system they will impact thus leading to successful adoption. Projects are focused on three areas of inquiry (AOI)

- AOI-1 Integration of legumes into sustainable smallholder farming systems and agricultural landscapes
- AOI-2 Integration of legumes within local and regional market systems, including trade
- AOI-3 Analysis of motivators or barriers to legume utilization within social and economic systems

The Legume Systems Innovation Lab is funded by USAID under the Feed the Future Initiative.

Convening Objectives

- Highlight research for donors, advisory panels, external stakeholders and possible scaling partners and cross-project learning and exchange
- Review and update Strategy White Paper
- Present work of RRT for projects, donors, advisory panels, external stakeholders and possible scaling partners
- Share administrative highlights and critical information to project personnel
- Engage with USAID Missions
- Cowpea Atlas brainstorming session with project personnel and TMAC
- Networking

Opening Remarks

USAID's Continuing Emphasis on Gender

"USAID continues to place a strong emphasis on gender and gender analysis in everything we do. Please make sure to continue keeping up strong gender analysis in your research and work." Mr. Daniel Bailey, Agreement Officer Representative, USAID





Michigan State University's Commitment to International Legume Research

"This laboratory has been a really important component and flagship program at MSU for a long, long time. International activity and research around legumes are two very important issues for us."

Dr. Doug Buhler, AgBioResearch Director & Asst. VP of Research College of Agriculture & Natural Resources, Michigan State University

The Scaling of Innovations



"Our goal is for research toward scaling, it's to provide that these innovations that ultimately allow others to scale content and to take what we're doing forward into new systems and take them out to the hands of the people that need them the most for the greatest impact."

Dr. Barry Pittendrigh, Feed the Future Innovation Lab for Legume Systems Research, Michigan State University

Day One – Research Presentations



Optimized Shrub System: Improving Cowpea Yields and Strengthening Smallholder Resilience Led by Dr. Richard Dick, Ohio State University



Invation Lab for Legume Systems Research ACI 1.2: Science-driven and farmer-oriented insect pest management for cowpea agro-ecosystems in West Africa Invary 2021 Invary 2021

Day Two - Research Presentations





Varieties using Mature-markers

Led by Phil Roberts, University of California-Riverside

<u>ea</u> ers	Development of Market-Driven Improved Cowpea Varieties for West Africa using Mature-Markers (AOI 1.1)	
side	February 17, 2021	

Innovation Lab for Logumo Systems Research



Day Three – Research Presentations



Mobile Technology

February 2021

MICHIGAN STATE

UNIVERSIT

Led by Dr. Eric Crawford, Michigan State University



Day Three – Research Presentation

FEEDIFUTURE Innovation Lab for Legume Systems Research	
Quantifying the scale and scope of nutritious cowpea products in local markets of West Africa February 2021	Quantifying the Scale and Scope or Nutritious Cowpea Products in Local Markets Led by Dr. Veronique Theriault, Michigan State University

External Presentation

Innovation to Impact (i2i)

Led by Dr. Peter Goldsmith, Feed the Future Soybean Innovation Lab,

University of Illinois



Project Internal Meetings – Topics

- Review and Update Strategy White Paper
- Administrative Update
 - COVID-19
 - USAID Environmental Policies
 - Mission Communications
 - Importance of Photography in Projects
 - Role of Lab Research Manager
- Cross Cutting Themes New Funding Opportunity
- Future Trends for Legume Research
- Cowpea Atlas Brainstorming Session
- Innovation to Impact (i2i) Presentation
- TMAC Address and Breakout Activity

Technical Management Advisory Committee (TMAC) Address

A View from the Outside

By Dr. Jeff Alwang, Virginia Tech

After providing a summary of the TMAC's role, who is on the TMAC, and what the TMAC looks for, Dr. Alwang provided the following observations:

- Good balance of high tech (upstream science) versus very applied
- Nice to see seed systems, downstream value chains, and rolse of private sector
- Cross-cutting themes are well-represented as appropriate
- COVID forced changes such as travel and finding a lot can be done without travel, projects have done a good job, and resilient science
- Learning from research during COVID, how to exploit ICT, what can host-country scientists share on adaptions to COVID challenges?

Breakout Activity Summary – Responses from Project Teams and Areas for Improvement

- More opportunities or spaces for interactions across or between projects as well as collaboration with external partners
- The projects have survived without travel this year, but travel is still necessary when COVID conditions allow
- Better integration of gender in projects both engaging women stakeholders in projects and degree training
- Opportunities for PhD degree training and degree training at US Universities

Resilience Resource Team

To assist projects in identifying strategies and interventions to incorporate cross-cutting themes of gender, nutrition, youth and resilience into their research, the lab established the Resilience Resource Team (RRT), the first of its kind for Feed the Future Innovation Labs. The RRT is comprised of advisors in each of the cross-cutting areas plus monitoring and evaluation (M&E) and project management support. Beyond ensuring the integration of capacity development across cross-cutting themes, the purpose of this initiative is the design of a resilience framework to support the legume value chain.

The team first designed scoring tools to assess readiness and capacity of the projects to address the cross-cutting themes and achieve the greatest impact. Results served as baseline information on cross-cutting themes for these projects, and capture of cross-cutting theme indicators. Gap areas resulted in design of call for concept notes, and additional technical assistance and capacity grants from the Legume Systems Research Management Entity. A dynamic M&E dashboard has also been created to capture data and information on RRT performance and cross-cutting theme milestones. At the convening, the team <u>presented</u> on activity to date and plans for future initiatives.



Strategy White Paper

"Leveraging Technology for Effective Systematic Change" is a collective 'living' vision strategy identified and updated annually during the Legume Systems Innovation Lab Annual Global Convening. The goal of the document is to ensure the Legume Lab stays focused on relevant projects aimed at achieving the greatest possible impact and scaling outcomes for global legume research utilizing a systems approach.

The document was first developed during the inaugural global convening held in Senegal in 2020 pre-COVID. During the 'virtual' 2021 global convening, the group updated the strategy and expanded focus to include Southern Africa to reflect the growing geographic focus of the Legume Lab.



Click Above to View Strategy Paper

Convening Recap by the Numbers

- Virtual Event Platform Whova with Zoom
- 124 Participants Registered
 - 119 Active Users
 - 47% Used Mobile App
 - 78% Used Web App
- Whova Community Highlights
 - 23 Discussion Topics Posted
 - 325 Messages
 - 7 Articles Shared
 - Importance of Photography in Projects
 - Role of Lab Research Manager
- Networking Highlights
 - 168 Private Messages
 - 146 One-on-One Attendee Interaction



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