



# Feed the Future Innovation Labs

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# Global Hunger and Food Security

World population growth (9 billion by 2050)

Increasing demand for food (50% increase)

Chronic hunger (1.02 billion)

Under nutrition (>40 million increase/yr)

Reduced human productivity



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# Global Challenges



Rising Food Prices

Climate Change

Diminishing Natural Resources

High Energy Costs

Urbanization

Under and Over Nutrition



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# Title XII of the Foreign Assistance Act (1961 and amendments)

- Fosters the application of the **agricultural sciences** to achieve the goals of increasing world food production and solving the food and nutritional insecurity challenges of developing countries.
- Advocates the mobilization of the capacities of **U.S. Land Grant and public universities** and its partners
- Directs **USAID** to engage the Land Grant universities to carry out Title XII



# USAID BFS Programs

## NEW BRANDING

“Feed the Future” Innovation Labs for  
Collaborative Research on ?

## PAST BRANDING (1980 – 2012)

Collaborative Research Support Programs  
(CRSPs)



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# Innovation Labs

- AquaFish
- Assets and Market Access
- Grain Legumes
- Horticulture
- Integrated Pest Management
- Livestock - Climate Change
- Nutrition
- Peanut and Mycotoxin
- Sorghum and Millet
- Sustainable Agriculture and Natural Resources



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# Technical Leadership of Innovation Labs



- A U.S. university with “**predominant technical capacity**” is contracted to administer each global Innovation Lab
- **Cooperative Agreements-LWA**
- Component projects are **competitively sub-awarded** to U.S. universities which partner with FTF focus country agriculture research institutions



# Core Traits of Innovation Lab Projects

1. Contribute to USAID's **Feed the Future** Research Strategy and development goals
2. Support **multi-disciplinary agriculture research** utilizing tools of modern science
3. **Long-term commitment** to achieve research objectives
4. Partner with and invest in **national agriculture research institutions**
5. Commitment to **institutional capacity building**
6. Accountability for **intermediate development outcomes and impact**





# The Innovation Lab Approach

The Feed the Future Innovation Labs **empower** host country institutions to address recognized needs and constraints through the creation of **new technologies** and **knowledge** while concurrently developing **human and institutional resource capacity** and competencies in strategic areas of agriculture and natural resource sciences, thus leading to **institutional self-reliance and sustainability**.



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# Outputs of Innovation Lab Research

## Technologies

- High yielding climate-resilient varieties
- Post harvest storage technologies
- Food Processing technologies

## Management Practices

- Conservation Agriculture
- Integrated Pest Management
- Pond culture of fish

## New Knowledge

- Markets
- Linkage between food production and nutrition
- Roles of women in agriculture value chains



# Value-Added of University Engagement

- Wealth of international **multi-disciplinary expertise**
- Application of **innovation** and **scholarship**
- Development underpinned with **quality science** and **validated technologies**
- Commitment to **solving complex real-world problems**



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# Strengths of Innovation Labs



1. Global technical leadership
2. Partnership and collaboration with CGIAR (strategic partners in CRPs)
3. Engaged with private industries and USAID development partners



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# Potential Benefit to USAID Missions

## Innovation Labs:

- Associate Awards provide an **easy mechanism** to engage U.S. universities and partners
- Research Outputs (technologies, management practices and knowledge) **enhance effectiveness** of country and regional FTF programs
- Innovation Labs can bring together disparate institutions to **network and work together** toward common development goals
- Scientists are driven to achieve **sustainable development impacts** rather than profit



# Degree and Short Term Training



- > 3,400 students completed degree programs (PhD, MS, BS)
- > 40% women
- 80% from developing countries
- Nearly 100% return to home countries



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# Innovation Labs- A Proven Model



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# Impacts

- Dry Grain Pulses – Improved bean and cowpea varieties and grain storage technology- >\$500 million in benefits
- INTSORMIL – 80 sorghum varieties released in 20 countries over 30 years; yield increases of 10% per year
- Peanut CRSP – Rosette-virus-resistant peanut varieties in Nigeria, Uganda, and Malawi. Aflatoxin-binding food additives used in 50-60% of commercial animal feeds
- IPM CRSP – \$500 million in benefits from 10 IPM practices developed







For More Information:

*CRSP Digest*

<http://crsps.net/>

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