

Feed the Future Innovation Labs Overview

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Innovation Lab



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



THE INNOVATION LAB APPROACH

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.



CORE TRAITS OF INNOVATION LABS

- Contribute to the Feed the Future Research Strategy
- Support multi-disciplinary collaborative agriculture research using modern science
- Partnering with and investing in national research institutes
- Committed to institutional capacity building, including graduate degrees





VALUE-ADDED FROM 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













STRENGTHS OF INNOVATION LABS

- Global technical leadership
- Partnerships & collaborations with CGIAR, national programs, NGOs & other Innovation Labs
- Engaged with private industries and USAID development partners

Bangladesh Aquaculture-Horticulture for Nutrition Collaborative Research Program

- Nutrition Innovation Lab
- Aquaculture & Fisheries
- Horticulture
- World Fish Bangladesh
- Bangladesh Agriculture University
- Patuakhali University of Technology



OUTPUTS OF INNOVATION LAB RESEARCH

Technologies

- High yielding climate-resilient varieties
- Post-harvest handling technologies
- Food processing technologies

Management Practices

- Conservation agriculture
- Integrated pest management
- Pond culture of fish

New Knowledge

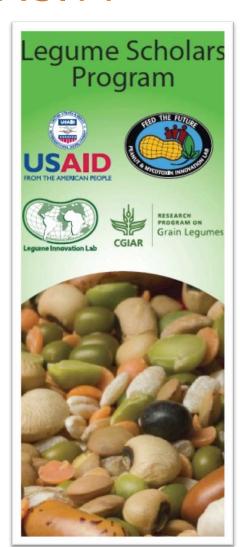
- Market opportunities and linkages
- Linkage between food production and nutrition
- Roles of women in agriculture value chains



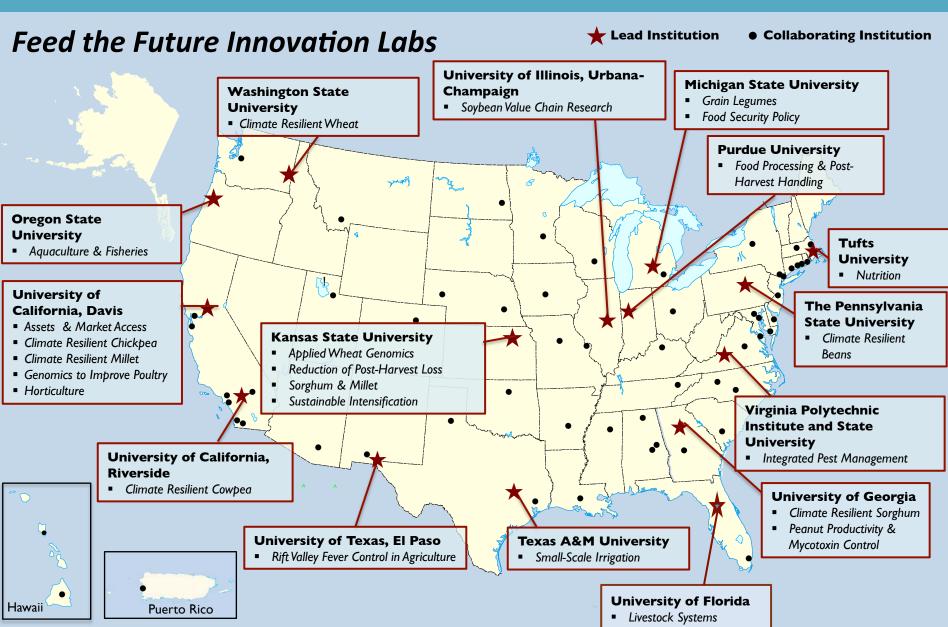
INCREASED SCIENTIFIC CAPACITY

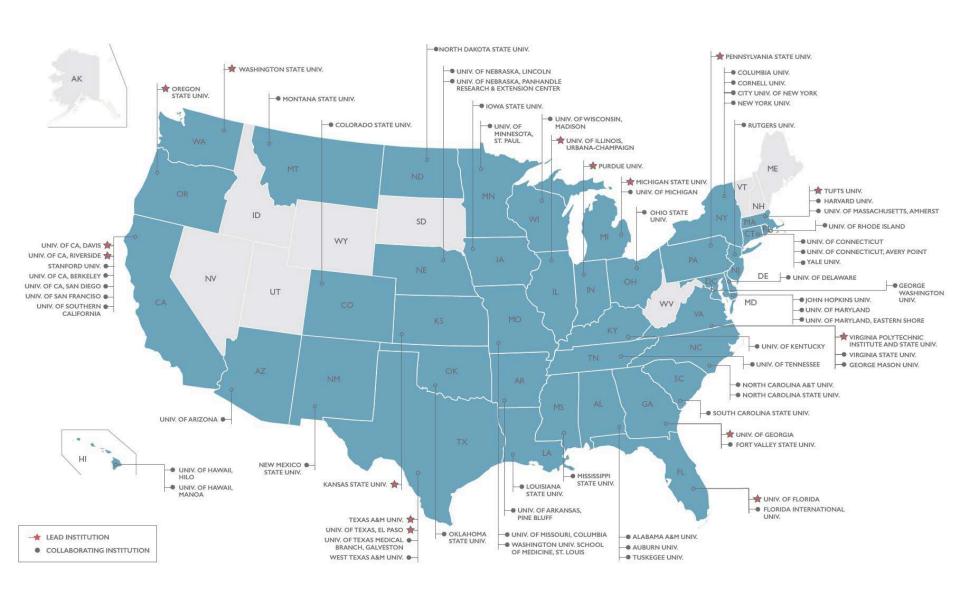
- >3500 students completed degree programs (PhD, MS, BS)
- >40% women
- 80% from developing countries

In FY2016:
322 degree students,
42% female, from 34 countries,
119 studying at 35 U.S. universities











TARGET FEED THE FUTURE FOCUS COUNTRIES

(# OF INNOVATION LABS)

Caribbean & Central America

- Guatemala (3)
- Haiti (4)
- Honduras (3)

Central Asia

Tajikistan (1)

Africa

- Ethiopia (11)
- o Ghana (10)
- Kenya (9)
- Mali (8)
- Malawi (7)
- Mozambique (6)
- Rwanda (4)
- Senegal (8)
- Tanzania (10)
- Uganda (6)
- o Zambia (6)

South & Southeast Asia

- o Bangladesh (10)
- Cambodia (5)
- Nepal (6)



CLIMATE RESILIENT CEREALS

- > Applied Wheat Genomics
- > Climate Resilient Millet
- Climate Resilient Sorghum

- > Climate Resilient Wheat
- > Sorghum & Millet

LEGUME PRODUCTIVITY

- Climate Resilient Beans
- > Climate Resilient Chickpea
- > Climate Resilient Cowpea
- Grain Legumes

- Peanut Productivity & Mycotoxin Control
- Soybean Value Chain Research



ADVANCED APPROACHES TO COMBAT PESTS & DISEASES

Genomics to Improve Poultry

Rift Valley Fever Control in Agriculture

NUTRITIOUS & SAFE FOODS

- > Aquaculture & Fisheries
- Food Processing & Post-Harvest Loss
- > Horticulture

- Livestock Systems
- > Nutrition
- Reduction of Post-Harvest Loss



SUSTAINABLE INTENSIFICATION

- > Integrated Pest Management
- Small-Scale Irrigation
- Sustainable Intensification

MARKETS & POLICY RESEARCH & SUPPORT

- Assets & Market Access
- > Food Security Policy



BENEFITS TO USAID MISSIONS & PROGRAMS

- Bring together disparate (research) institutions to network and work together toward common development goals
- Allow research outputs (technologies, management practices & knowledge) to enhance effectiveness of country and regional programs
- Provide human and infrastructure capacity building opportunities
- Enable scientists to achieve sustainable development impacts
- Provide easy and effective mechanism to engage U.S. universities and partners (many Innovation Labs can accept buy-ins and/or Associate Awards)



FEEDIFUTURE

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

www.feedthefuture.gov