Feed the Future Innovation Labs
Overview

Dave Hoisington
Chair, Innovation Labs Council
Director, Peanut Productivity & Mycotoxin Control Innovation Lab
• 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
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
• Global technical leadership
• Partnerships & collaborations with CGIAR, national programs, NGOs & other Innovation Labs
• Engaged with private industries and USAID development partners
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)

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

- Central Asia
  - Tajikistan (1)

- South & Southeast Asia
  - 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)