Feed the Future Program for Sustainable Intensification

Jerry Glover     USAID     SANREM Annual Meeting     May 2014
Feed the Future Food Security Innovation Center:
Leads USAID’s implementation of FTF Research Strategy in seven priority program areas

- Sustainable Intensification
- Climate Resilient Cereals
- Legume Productivity
- Advanced Approaches to Combat Pests and Disease
- Safe and Nutritious Foods
- Policy and Markets Research and Support
- Human and Institutional Capacity Development
Integrate research outputs, policy and nutrition in production systems

Focus multiple interventions within targeted geographic areas

Diversify major production systems with improved crops and animals

Evaluate and disseminate improved soil and water management practices
Program for Sustainable Intensification

Purpose: Provide pathways out of hunger and poverty for small holder families, particularly for women and children, through sustainably intensified farming systems.

<table>
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<th>Innovation Lab</th>
<th>Lead Institution</th>
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<tr>
<td>Cereal Systems Initiative for South Asia</td>
<td>CIMMYT</td>
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<td>Africa RISING</td>
<td>ILRI/IITA/IFPRI</td>
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<td>FTF Innovation Lab for Small-scale Irrigation</td>
<td>Texas A &amp; M</td>
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<td>Integrated Pest Management FTF Innovation Lab</td>
<td>Virginia Tech</td>
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<td>IPM Innovation Lab AFSI Associate Award</td>
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<td>SANREM FTF Innovation Lab</td>
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<td>Water and Livelihoods Initiative</td>
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<td>CGIAR – Aquatic Agricultural Systems</td>
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<td>FTF Innovation Lab for Sustainable Intensification</td>
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**Program for Sustainable Intensification**

**Sustainability Measures**
- Same or less land and water
- Efficient, prudent use of inputs
- Minimised GHG emissions
- Increased natural capital
- Strengthened resilience
- Reduced environmental impact

**Inputs**
- **INDIRECT:**
  - Financial capital
  - Knowledge
  - Infrastructure
  - Technology
  - Markets

- **DIRECT:**
  - Labour
  - Water
  - Inorganic chemicals and/or organic matter
  - Biodiversity

**Outputs**
- Production
- Income
- Nutrition

**Farmer & Community**

**Intensification Process**
- Ecological
- Genetic
- Socio-economic

[Montpellier Panel Report 2013](https://example.com)
Genetic Intensification

- Improved varieties and breeds
- Drought & heat tolerance
- Pest & disease resistance/tolerance
- Nutrient use efficiency
- Photosynthesis, C assimilation, perenniality
Socio-economic intensification

- Enterprise diversification
- Market linkages
- Farmer organizations & field schools
- Innovation platforms
- Extension & education
Ecological intensification

- Crops, livestock, shrubs & trees
- Nutrient cycling
- Fertilizer management
- Intercropping & rotations
- Whole-farm—cropped & non-cropped areas
- Above- and below-ground
Fostering Spillover by Design

1. Implementation sites to local sub-systems
2. Implementation to non-implementation sub-systems
3. Sub-systems to (sub-) systems
4. Systems to systems
5. Sites to sites
6. Country to country barriers to spillover
• Data management & accessibility
• Cross-program integration & communication
• Expanded collaboration between CGIAR, National Ag Research, and U.S. university partners
• Greater linkages to development projects and partners
• Private sector engagement
• Increased emphasis on socio-economic components—decision making, behavior change, participatory research
• Linking field- and farm-scales to community and landscape scale impacts
FEED THE FUTURE
The U.S. Government's Global Hunger & Food Security Initiative