SANREM
Sustainable Agriculture and Natural Resource Management

An innovation laboratory to improve food security, rural livelihoods and resource conservation globally through conservation agriculture
About the SANREM CRSP*

The overall goal is to increase smallholder food security and income, and promote natural resource conservation through development of participatory, gender sensitive, economically viable and socially-scalable conservation agriculture production systems (CAPS)

*Name is being changed to Feed the Future Food Security Innovation Lab Collaborative Research on Sustainable Agriculture and Natural Resource Management within USAID Program for Sustainable Intensification
SANRENM
Brings a systems approach to USAID’s FtF food security themes:

- Climate resilient cereals
- Legume productivity
- Advanced approaches to combat pests and diseases
- Research on nutritious and safe foods
- Markets and policy research and support
- **Sustainable intensification**
- Human and institutional capacity development
SANREM’s’s

Global focus on conservation agriculture production systems (CAPS) is designed to provide smallholders with the capacity for

• climate-smart agriculture and
• resilient agro-ecological systems

to achieve sustainable intensification
Global land degradation

Baiel et al., 2008
SANREM’s project locations

Bolivia, Ecuador, Haiti, Ghana, Kenya, Lesotho, Mali, Mozambique, Uganda, Cambodia, India, Nepal and the Philippines
Conservation Agriculture Production Systems

• Minimize soil disturbance from tillage
• Maintain a year-round soil cover
• Use crop rotations or mixtures

Intercropping upland rice and cowpeas in the Philippines
Field preparation on residues in Uganda
Long-term research awards

Generate knowledge, promote innovation, build capacity and engage stakeholders to develop sustainable CAPS

LTRA-6 Haiti: Virginia Tech
LTRA-7 Andes: Virginia Tech, Penn State University
LTRA-8 West Africa: Kansas State University
LTRA-9 Southern Africa: University of Tennessee
LTRA-10 East Africa: University of Wyoming
LTRA-11 South Asia: University of Hawaii
LTRA-12 Southeast Asia: North Carolina A&T State University
Methodological approach

- Assessment of needs and problem diagnosis with farmers
  - Baseline surveys and data collection
  - Community engagement and network building

- Scaling up within and outside the region
  - CAPS identified and adapted for evaluation
  - Demonstrations
  - On farm and on station trials

- Technical/economic/gender/impact assessment of CAPS
Replicated experiments
Demonstrations
Activities with farmers

Field days
Reflection days
Focus groups
Training workshops
Farmer-to-farmer visits
Cross-cutting research awards

Address common research elements in LTRAs to generalize and expand findings to a wider range of situations

CCRA-6  Economic and impact analysis
CCRA-7  Gendered knowledge
CCRA-8  Technology networks
CCRA-9  Soil quality and carbon sequestration
<table>
<thead>
<tr>
<th>Institutional Partners</th>
<th>number</th>
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<tbody>
<tr>
<td>U.S. Universities</td>
<td>7</td>
</tr>
<tr>
<td>Host country universities</td>
<td>10</td>
</tr>
<tr>
<td>Host country NGOs</td>
<td>11</td>
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<tr>
<td>Host country government organizations</td>
<td>7</td>
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<tr>
<td>CGIARs/other international organizations</td>
<td>6</td>
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PARTNERS:

1. AT-UGANDA
2. SACRED AFRICA
3. AFRICA 2000 NETWORK-U
4. MANOR HOUSE AGRIC. CENTRE
5. KAPCHORWA COMMERCIAL FARMERS' ASSOCIATION
6. MAKERERE UNIVERSITY
7. VIRGINIA TECH
8. UW

FUNDED BY: USAID
<table>
<thead>
<tr>
<th>Accomplishments in Year 3</th>
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<tr>
<td><strong>Field trials</strong></td>
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<tr>
<td><strong>Households benefitting</strong></td>
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<td><strong>Men/Women trained (short-term)</strong></td>
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<td><strong>Long-term degree students (M/F)</strong></td>
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<td><strong>Undergraduate student internships</strong></td>
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Thank you for your attention