

SANREM

Sustainable Agriculture and Natural Resource Management

An innovation laboratory to improve
food security, rural livelihoods and
resource conservation globally through
conservation agriculture



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COLLABORATIVE
RESEARCH PROGRAMS



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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*



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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



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SANREM'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**

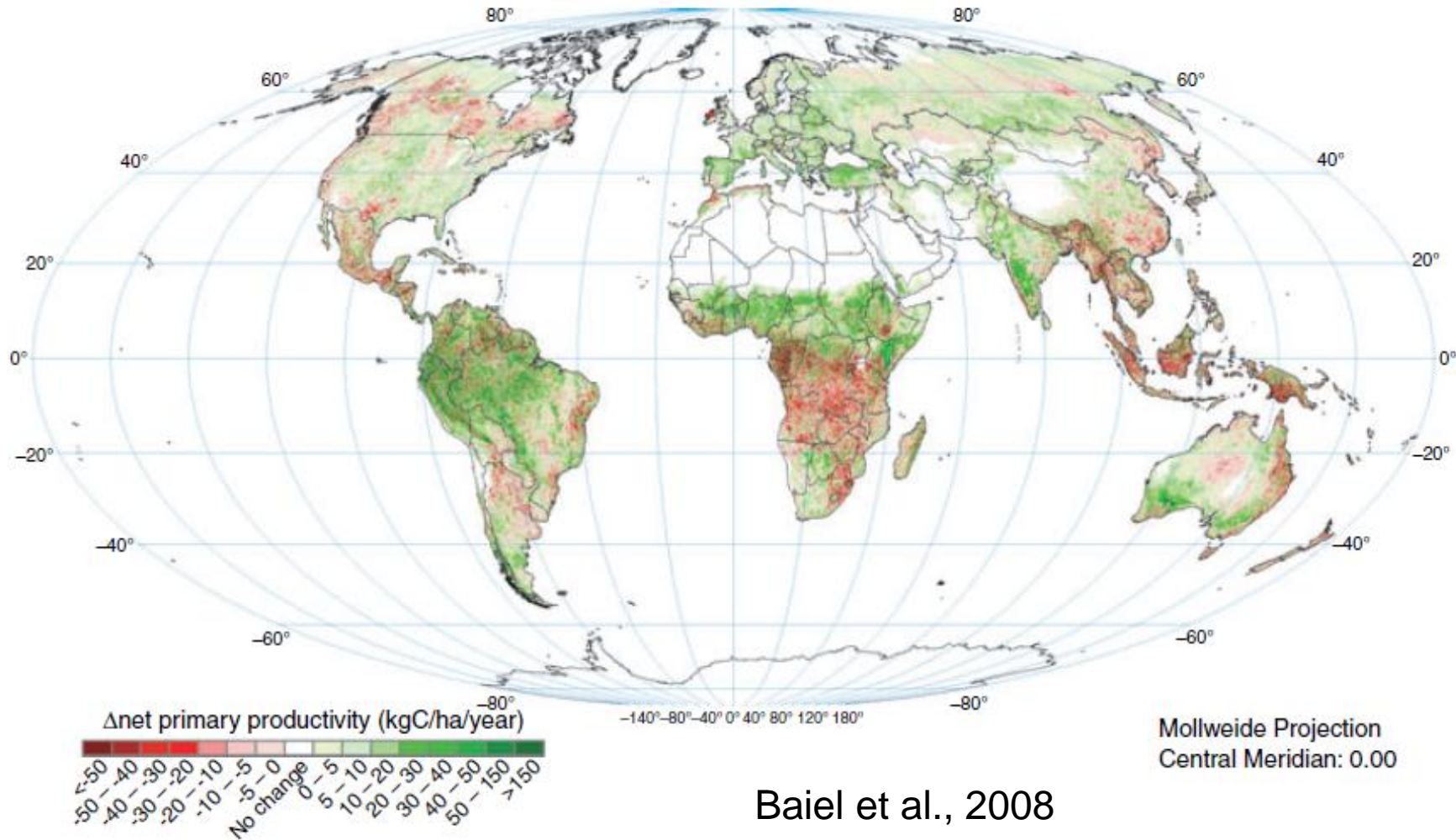


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Global land degradation

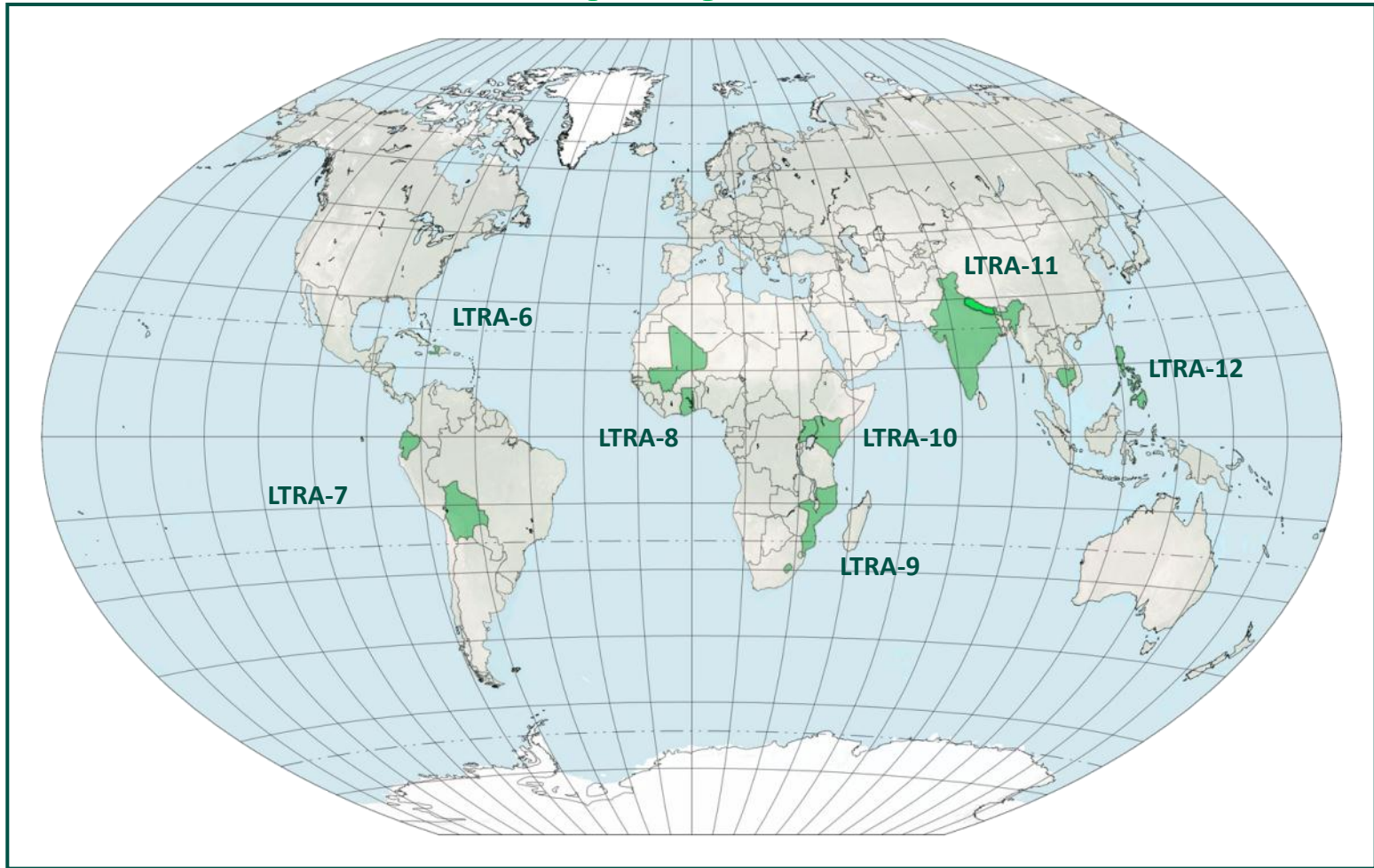


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SANREM's project locations



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



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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



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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**

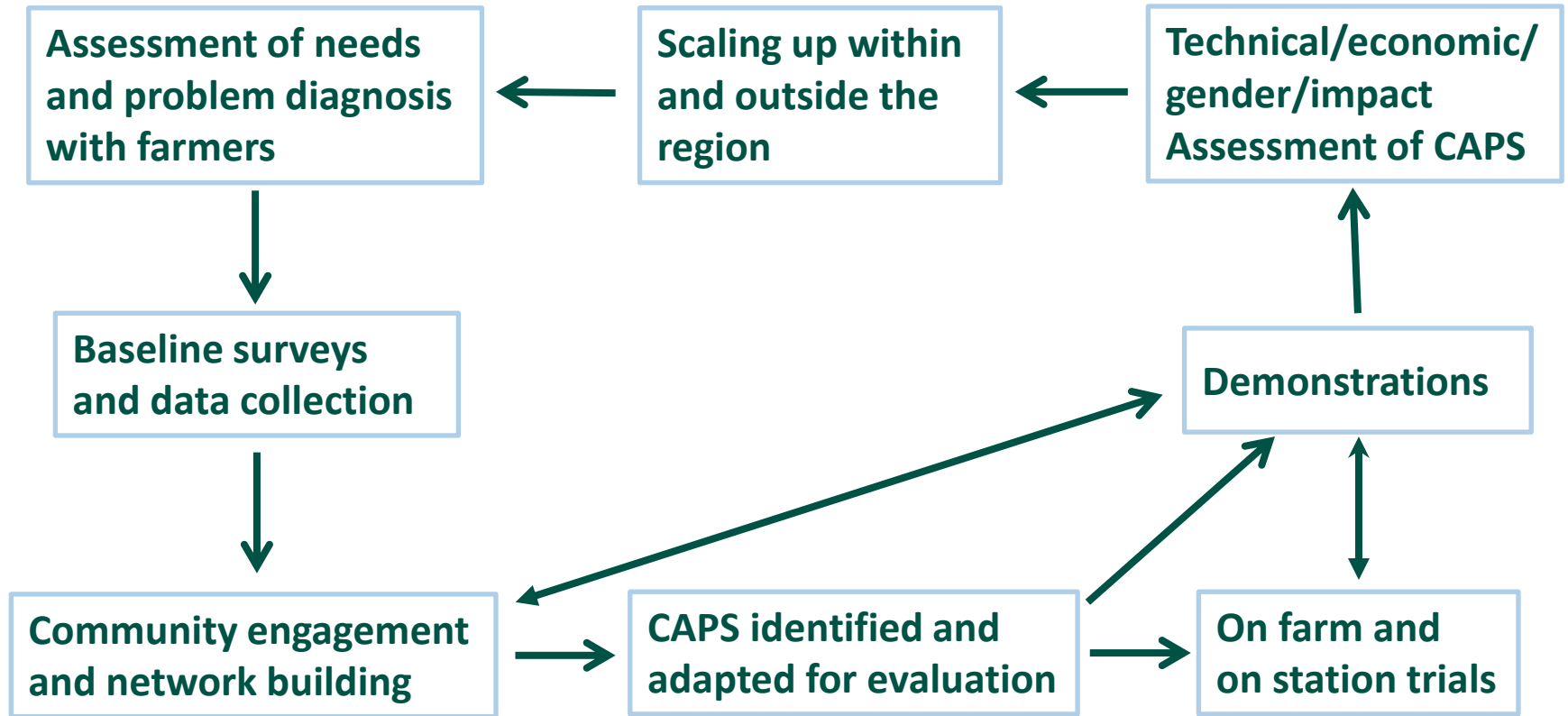


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Methodological approach



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Replicated experiments



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Demonstrations



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Activities with farmers

- Field days
- Reflection days
- Focus groups
- Training workshops
- Farmer-to-farmer visits



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Cross-cutting research awards

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

CCRA-6 Economic and impact analysis

CCRA-7 Gendered knowledge

CCRA-8 Technology networks

CCRA-9 Soil quality and carbon sequestration



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Institutional Partners	number
U.S. Universities	7
Host country universities	10
Host country NGOs	11
Host country government organizations	7
CGIARs/other international organizations	6



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Partners



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Accomplishments in Year 3

Field trials	> 200
Households benefitting	3,115
Men/Women trained (short-term)	4705/4,109
Long-term degree students (M/F)	41/29
Undergraduate student internships	35
Oral and written presentations	120



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Thank you for your attention



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