



# SANREM CRSP: Background, Goals, and Objectives

Theo Dillaha, Program Director SANREM CRSP

The SANREM CRSP is made possible by the United States Agency for International Development and the generous support of the American people through Cooperative Agreement No. EPP-A-00-04-00013-00



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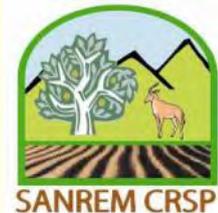


**VirginiaTech**  
*Invent the Future*



# Outline

- **Background**
- **USAID Goals**
- **SANREM Mission, Goals & Objectives**
- **Phase III Accomplishments**
- **Phase IV Overview**
  - **Approach**
  - **Program**
  - **Management Entity**
  - **Key activities, documents and policies**
  - **Phase IV Timeline**



# Background

## TOWARD SUSTAINABILITY

A Plan for  
Collaborative  
Research on  
Agriculture and  
Natural Resource  
Management

NATIONAL RESEARCH COUNCIL

**1990:** US Congress requests USAID to create a new CRSP on sustainable agriculture and natural resource management.

**1990:** USAID contracts with Natural Research Council for planning for new CRSP.

**1991:** *Towards Sustainability* published by NRC with recommendations for establishment of the SANREM CRSP.



# Background



Phase I & II Logo



SANREM CRSP

Current Logo

**1992:** SANREM CRSP Phase I competitively awarded to University of Georgia

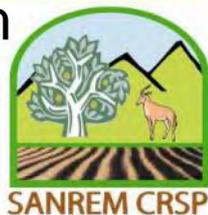
**1997:** Phase II continued at University of Georgia

**2004:** Phase III competition and award to Virginia Tech consortium

**2004:** Bridging awards to SANREM PIs to complete previous work

**2005:** Phase III planning awards for long-term research proposals.

**2006:** Phase III Long-term research program awards



# Background

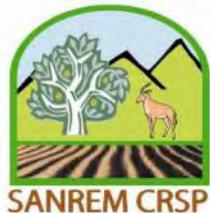
- 2007:** External Evaluation Panel (EEP) review of Phase III for scientific merit and impact
- 2008:** Administrative Management Review (AMR) of Phase III Management Entity (ME)
- 2009:** Phase IV extension proposal
- 2009:** SANREM CRSP extended for five years (Phase IV)
- 2010:** Phase IV long-term research awards
- 2012:** EEP progress reviews of LTRAs to determine funding in years four and five
- 2013:** USAID review of SANREM to determine if SANREM will end or be recompeted
- 2014:** Competition for Phase V ME if extended





**USAID**  
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- USAID Bureau of Economic Growth, Agriculture, and Trade, Office of Agriculture (**EGAT/AG**)
- Key USAID Personnel:
  - **Harry Rea**, Agreement Officer Technical Representative (AOTR); also Agriculture Technology Generation and Outreach Team Leader over all but one CRSP
  - Vann Rolfson, Agreement Officer, Office of Acquisition and Assistance (OAA/EGAT) (no need for direct contact)



# Harry Rea, SANREM CRSP AOTR

1973-1976 Peace Corps, Cameroon

1977-1981 Aquaculture positions in Africa

Auburn University

- MS Agricultural Economics, 1984

- MS Aquaculture, 1986

1986-1990: Fisheries Program Specialist,  
Peace Corps

1991-present: USAID Aquaculture and  
Fisheries Specialist

2007-present: SANREM CRSP AOTR



# CRSP Program Goals

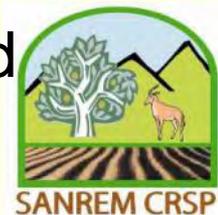
- Improve the capacity of USAID and its partners to **increase agricultural productivity** in a sustainable manner:
  - technological and social innovations,
  - host-country capacity building (individuals and institutions),
  - site specific technology assessment (What works? What doesn't?), &
  - methods for scaling local successes up and out.
- Benefit US agriculture/interests



# USAID Impact Indicators

- Science and technologies developed
- Enabling policies developed and implemented
- People trained\*
- Governance, policies, and local institutions reformed and strengthened.
- Agricultural productivity increases
- Improved livelihoods
- Natural resources conserved

\* Disaggregated by gender, under-represented groups

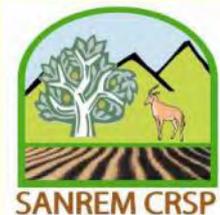


# SANREM Mission

**Promote**

- **stakeholder empowerment and**
- **improved livelihoods**

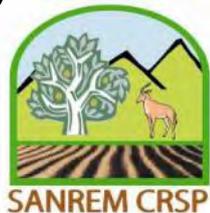
**through knowledge-based  
sustainable agriculture and natural  
resource management systems.**



# SANREM Goals

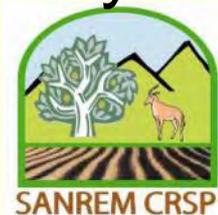
Support developing country and development agency decision makers and implementers by:

- facilitating access to appropriate SA & NRM **data, knowledge, tools** and **methods of analysis**, and
- enhancing decision maker capacity to improve livelihoods and sustainably manage natural resources.



# SANREM Objectives

- Increase stakeholder income generation,
- Empower stakeholders, particularly women,
- Enhance resource management,
- Strengthen local institutions,
- Improve market access for smallholders and communities, and
- Promote sustainable and environmentally sound development.

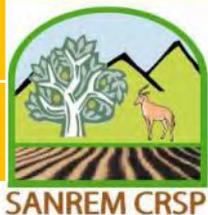




# SANREM CRSP Phase III

- \$12 million from 2004 – 2009
- Partners

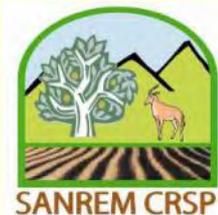
<b>Host country universities</b>	<b>13</b>
<b>Host country research institutes</b>	<b>5</b>
<b>Host country NGOs</b>	<b>3</b>
<b>International NGOs</b>	<b>4</b>
<b>International Agricultural Research Centers</b>	<b>6</b>
<b>Private sector</b>	<b>1</b>
<b>U.S. universities</b>	<b>22</b>



SANREM CRSP

# Phase III Research Program

- Bridging awards for Phase I and II research wrap-up
- Planning awards for Phase III Long-Term Research Award (LTRA) applications
- LTRAs
- Cross-Cutting Research Activities (CCRAs)



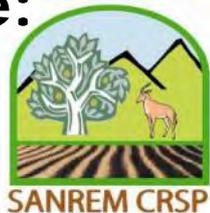
# Phase III LTRAs

1. **Adapting to Change in the Andean Highlands: Practices and Strategies to Address Climate and Market Risks in Vulnerable Agro-Ecosystems**, Corinne Valdivia, University of Missouri (Bolivia, Peru)
2. **Agroforestry and Sustainable Vegetable Production in Southeast Asian Watersheds**, Manuel Reyes, North Carolina A&T State University (Indonesia, Philippines, Vietnam)



# Phase III LTRAs

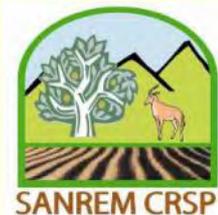
- 3. Decentralization Reforms & Property Rights: Potentials and Puzzles for Forest Sustainability and Livelihoods**, Elinor Ostrom, Indiana University (Kenya, Uganda, Bolivia, Mexico)
- 4. Participatory Socio-Economic Model for Food Security, Improved Rural Livelihoods, Watershed Management, and Biodiversity Conservation in Southern Africa**, Alex Travis, Cornell University (Zambia)
- 5. Watershed-based Natural Resource Management in Small-scale Agriculture: Sloped Areas of the Andes**, Jeff Alwang, Virginia Tech (Bolivia, Ecuador)



# Phase III CCRAs

1. **Assessing and Managing Soil Quality for Sustainable Agricultural Systems**, Peter Motavali, University of Missouri
2. **Gendered Access to Markets: Gendered Networks and Livelihood Alternatives**, Maria Elisa Christie, Virginia Tech
3. **Linking Knowledge and Action: Meeting NRM Challenges**, Esther Mwangi, Harvard University
4. **Soil Metagenomics to Construct Indicators of Soil Degradation**, Karen Garrett, Kansas State University
5. **Watershed Modeling and Assessment**, Conrad Heatwole, Virginia Tech

*Initiated by Phase III Technical Committee*



# Capacity Building

## Degree Training

Degree	US & Developed Countries		Host Countries		TOTAL
	Men	Women	Men	Women	
Doctorate	9	11	11	13	44
Masters	5	6	21	20	52
Bachelors	0	1	32	24	57
<b>TOTAL</b>	<b>14</b>	<b>18</b>	<b>64</b>	<b>57</b>	<b>153</b>

**Cumulative: FY2004-09**



# Phase III Publications

Publication type	Number
Journal articles	55
Books	11
Research Briefs	8
Working papers	27

**Cumulative: FY2004-10**

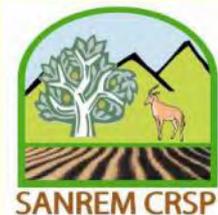
**Keith Moore will discuss publications and getting the message out in detail.**



# Phase IV Program

**Increasing smallholder food security through the introduction of conservation agriculture production systems (CAPS)**

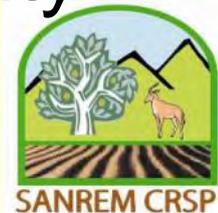
**Consulted with USAID Washington, Missions, Phase III partners, and other stakeholders for over one year to develop the Phase IV focus on CAPS.**



# Conservation Agriculture Production Systems (CAPS)

Farming systems that:

- **Maintain a year-round soil cover;**
  - **Minimize soil disturbance by tillage;**
  - **Utilize crop rotation systems**
- and
- utilize IPM and improved nutrient management to improve profitability and ecosystem services.



# Phase IV CAPS Goals

**Develop locally appropriate CAPS and test their ability to:**

- increase smallholder food production;
- be adoptable and economically viable for smallholders;
- enhance the productive capacity of smallholder soils; and
- enhance ecosystem services through improvements in soil cover, carbon, and quality.



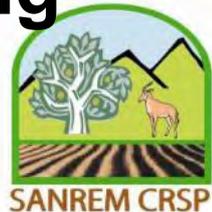
# Phase IV LTRAs

- 1. Bolivia & Ecuador**, Jeffrey Alwang, Virginia Tech
- 2. Cambodia & Philippines**, Manuel Reyes, North Carolina A&T State University
- 3. Ghana & Mali**, P.V. Vara Prasad, Kansas State University
- 4. Haiti**, Steven Hodges, Virginia Tech
- 5. India & Nepal**, Travis Idol, University of Hawaii
- 6. Lesotho & Mozambique**, Neal Eash, University of Tennessee
- 7. Uganda & Kenya**, Jay Norton, University of Wyoming



# Initial Phase IV CCRAs

- 1. Economic Impact Analysis**, Mike Bertelsen and George Norton
  - 2. Gendered Knowledge**, Maria Elisa Christie, Virginia Tech
  - 3. Soil Quality and Carbon Sequestration**, Michael Mulvaney, Virginia Tech
  - 4. Technology Networks**, Keith Moore, Virginia Tech
- Additions depend on available funding**



# Management Entity

## Virginia Tech Office of International Research, Education, and Development (OIREED)

### M.E. Mission:

Facilitate your research and development activities and disseminate knowledge from SANREM research, training, and technology transfer activities.



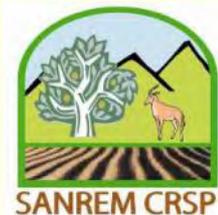
# M.E. Personnel

- **S. K. De Datta**, Administrative PI, Soil Scientist
- **Theo Dillaha**, Program Director, Agro-Environmental Engineer
- **Keith Moore**, Associate Program Director, Rural Sociologist
- **Maria Elisa Christie**, Gender Equity Coordinator, Geographer
- **Mike Bertelsen**, Economic Impact Coordinator



# M.E. Personnel

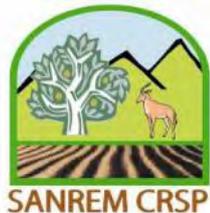
- **Mike Mulvaney**, Assistant Program Director, Crop and Soil Scientist
- **Part-time staff and students:**
  - **Cheryl Heatwole Shenk**, SKB & communications
  - **Meredith Warren**, communications
  - **Megan Bryne**, Gender Equity Assistant
  - **Jennifer Lamb**, Technology Networks CCRA
  - **Abigail Murrman**, Economic Impact CCRA
  - **Keri Agriesti**, Gendered Knowledge CCRA
  - **Lauren Moore**, SKB
  - **Jessica Martin**, Gender Equity Assistant
  - **Mark Ohland**, Webmaster



# Organizational Structure, Budget and Budget Policies

- **Organization**
  - Management Entity
  - Technical Committee
  - Board of Directors
  - External Evaluation Panel
- **SANREM Budget Breakdown**
- **SANREM Budget Policies**

Described in detail by SK De Datta



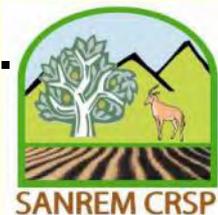
# Key Activities

## **SANREM Knowledgebase (SKB)**

Organizes project generated knowledge in an online searchable database to enable stakeholders to locate SANREM and other SA & NRM knowledge (articles, reports, books, projects, etc.)

- 3205 entries to date
- 677 Phase III products.

Described by Cheryl Heatwole Shenk.



# Gender Equity

Integral component of all SANREM activities:

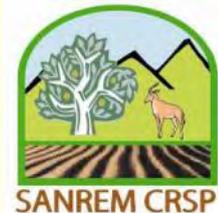
- Research
- Outreach
- Training
- Reporting

More details by Maria Elisa Christie.



# Associate Awards & Technical Assistance

- **Associate Awards:**
  - Additional potential funding available from USAID to support SA & NRM related Mission Strategic Objectives
  - Typically initiated by USAID (Washington or Missions)
  - Awards made to ME, which creates teams to do the work.
- **Technical Assistance:**
  - SANREM program to assist Missions with short-term technical assistance needs
- Described by Mike Bertelsen.



# Knowledge Dissemination & Reporting

- Semi-annual, annual, and other reports
- Publications, presentations, and other reportable activities
- Training activities
- SANREM Knowledge Base contributions
- Invoicing and financial reporting

Discussed by Keith Moore, Jane Lee, and Cheryl Heatwole Shenk



# Key Documents

## SANREM CRSP

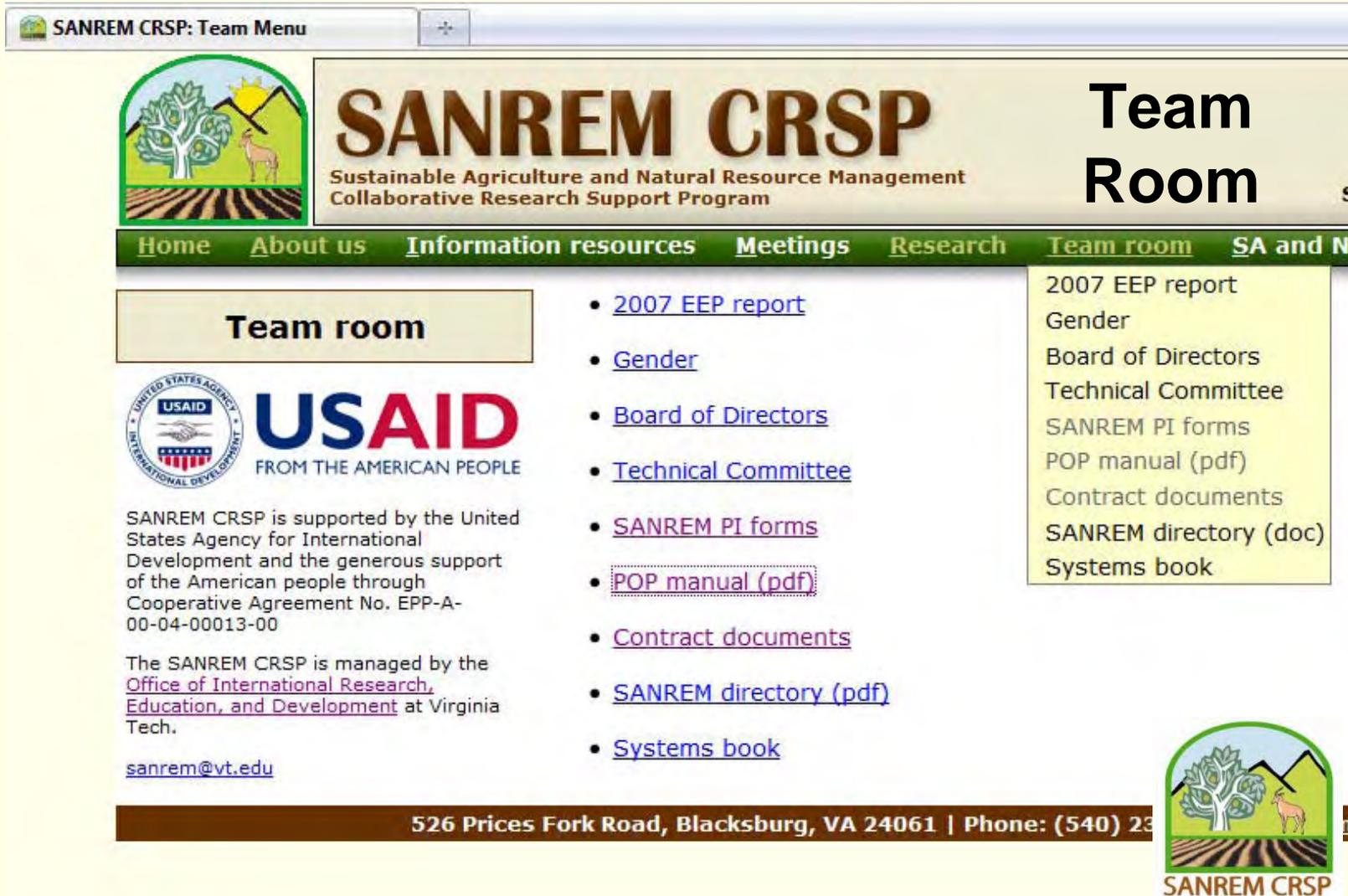
SUSTAINABLE AGRICULTURE AND  
NATURAL RESOURCES MANAGEMENT  
COLLABORATIVE RESEARCH SUPPORT PROGRAM



**POLICY AND OPERATING PROCEDURES MANUAL**



# Key Documents



**SANREM CRSP: Team Menu**



## SANREM CRSP

Sustainable Agriculture and Natural Resource Management  
Collaborative Research Support Program

### Team Room

[Home](#) [About us](#) [Information resources](#) [Meetings](#) [Research](#) [Team room](#) [SA and N](#)

#### Team room



## USAID

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[sanrem@vt.edu](mailto:sanrem@vt.edu)

- [2007 EEP report](#)
- [Gender](#)
- [Board of Directors](#)
- [Technical Committee](#)
- [SANREM PI forms](#)
- [POP manual \(pdf\)](#)
- [Contract documents](#)
- [SANREM directory \(pdf\)](#)
- [Systems book](#)

2007 EEP report  
Gender  
Board of Directors  
Technical Committee  
SANREM PI forms  
POP manual (pdf)  
Contract documents  
SANREM directory (doc)  
Systems book

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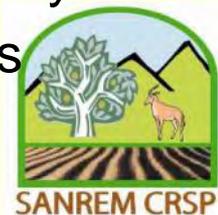


SANREM CRSP

# POP Manual

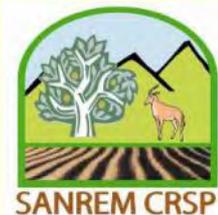
- Purpose and authority of policy and operating procedures
- Summary of key policies
- Organizational structure
- Operating procedures
- Calendar
- Travel policies
- Equipment purchase
- Publications
- Graduate student policies
- Host Country Partner Visas and Insurance
- Reporting requirements
- SANREM Knowledgebase
- Trip reports
- Semiannual reports
- Annual research reports
- Annual work plans and budget instructions
- Environmental compliance (PERSUAP)
- Budget guidelines
- SANREM CRSP directory
- Glossary and acronyms

Discussed in more detail later



# Key Policies

- Obtain **J-1 visas through TraiNet** for all host country SANREM supported students studying in the U.S., including those who entered the U.S. prior to SANREM support with non J-1 visas.
- SANREM CRSP provides financial support only for students who are U.S. citizens, permanent residents, or **host country nationals**.



# Key Policies

- All SANREM products must follow **USAID Marking and Branding Policy** in the publication of all papers, reports, articles, book chapters, and presentations, and provision of equipment to host country partners.



# Key Policies

- Any activities involving pesticides, genetically modified organisms, deforestation activities, or discharge of wastes require an Initial Environmental Examination (IEE) modification and approval by the ME and USAID before the activities can be implemented.



# Key Policies

- **Pipeline policy.** SANREM de-obligates unexpended funds from the previous year's budget exceeding 10 percent of the previous year's allocation. Exceptions may be made if requested in writing 30 days before the end of the budget year and if approved by the ME.



# Key Policies

- Copies of all project-generated information resources must be provided to the ME and metadata for each resource must be entered into the SANREM Knowledgebase (SKB) along with the information resources (if they are not copyrighted) as they are published.



# Key Policies

- The ME (USAID) must be provided with all data, associated metadata, and materials generated through SANREM CRSP funding within six (6) months of the termination of the LTRA. At the request of PIs, data may be kept confidential for up to one additional year.



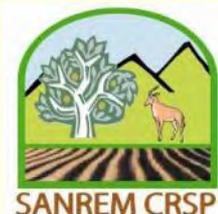
# Phase IV Timeline

<i>Phase IV Needs Assessment</i>	2008-2009
<i>Notification of Phase IV extension</i>	July 2009
<i>RFAs Issued for LTRAs</i>	July 2010
<i>Selection of Long-term Research Award Recipients</i>	Fall 2010
<i>Phase IV Begins</i>	Oct. 2010
<i>Partners' Kick-Off Meeting</i>	May 2010
EEP LTRA progress reviews to determine funding in years four and five.	Jan.-Mar. 2012
USAID review of SANREM program to determine continuation.	2013
Competition for Phase V ME, if continued	2014



# Phase IV Timeline

Semi-Annual and Annual Reports	Semi-annually
Technical Committee Meetings	2-3 times/year
Board of Directors Meetings	Annually
PI/stakeholders meeting (host countries)	Annually
Final annual meeting (Washington, DC)	2014



# SANREM CRSP

## Shaping a sustainable future



Creating, organizing, and disseminating knowledge that improves livelihoods through sustainable agriculture and natural resource management

