

Horticulture CRSP Regional Centers of Innovation Make Impact Worldwide

We build global partnerships for fruit and vegetable research to improve livelihoods in developing countries.

Beth Mitcham
Director



Collaborative Research Support Programs (CRSP)

- ▶ Harness the expertise in research within the US Public Universities for agriculture development in the poorest regions of the world
- ▶ Collaborations between US Universities and Developing Country partners



US Agency for International Development (USAID)

- ▶ Collaborative Research Support Programs
 - Sorghum, Millet, and Other Grains – University of Nebraska–Lincoln
 - Peanut – University of Georgia
 - Livestock and Climate Change – Colorado State University
 - Aquaculture – Oregon State University
 - Integrated Pest Management – Virginia Tech
 - Sustainable Agriculture – Virginia Tech
 - Pulses – Michigan State University
 - BASIS – microfinance – University of Wisconsin–Madison/UC Davis
 - **Horticulture – UC Davis (10/09)**
 - Nutrition CRSP – Tufts University

Feed the Future

- Focus on agriculture and nutrition
 - Enhancing livelihoods of poor
 - Improving nutritional status of women and young children
- Focus on twenty countries where need is greatest and government also willing to invest
- Research is recognized as a critical need



CRSP
COLLABORATIVE RESEARCH
SUPPORT PROGRAMS



Feed the Future

Global Food Security Research Strategy

RESEARCH is prominent in Feed the Future



Critical to sustainably enhancing agricultural productivity growth



Strongly linked to economic growth



Substantial impact on poverty reduction



CRSP
COLLABORATIVE RESEARCH
SUPPORT PROGRAMS



Worldwide Food Security

- ▶ Access to sufficient, safe, nutritious food
- ▶ Meets dietary needs for an active and healthy life
- ▶ Hidden Hunger – Malnutrition
 - 2–3.5 billion lack Vitamins and minerals (28–50%)
 - Stunts the mental and physical capacity of individuals
 - Robs the poor of a healthy, productive life
- ▶ Essential to unlock potential for human development and economic growth over time



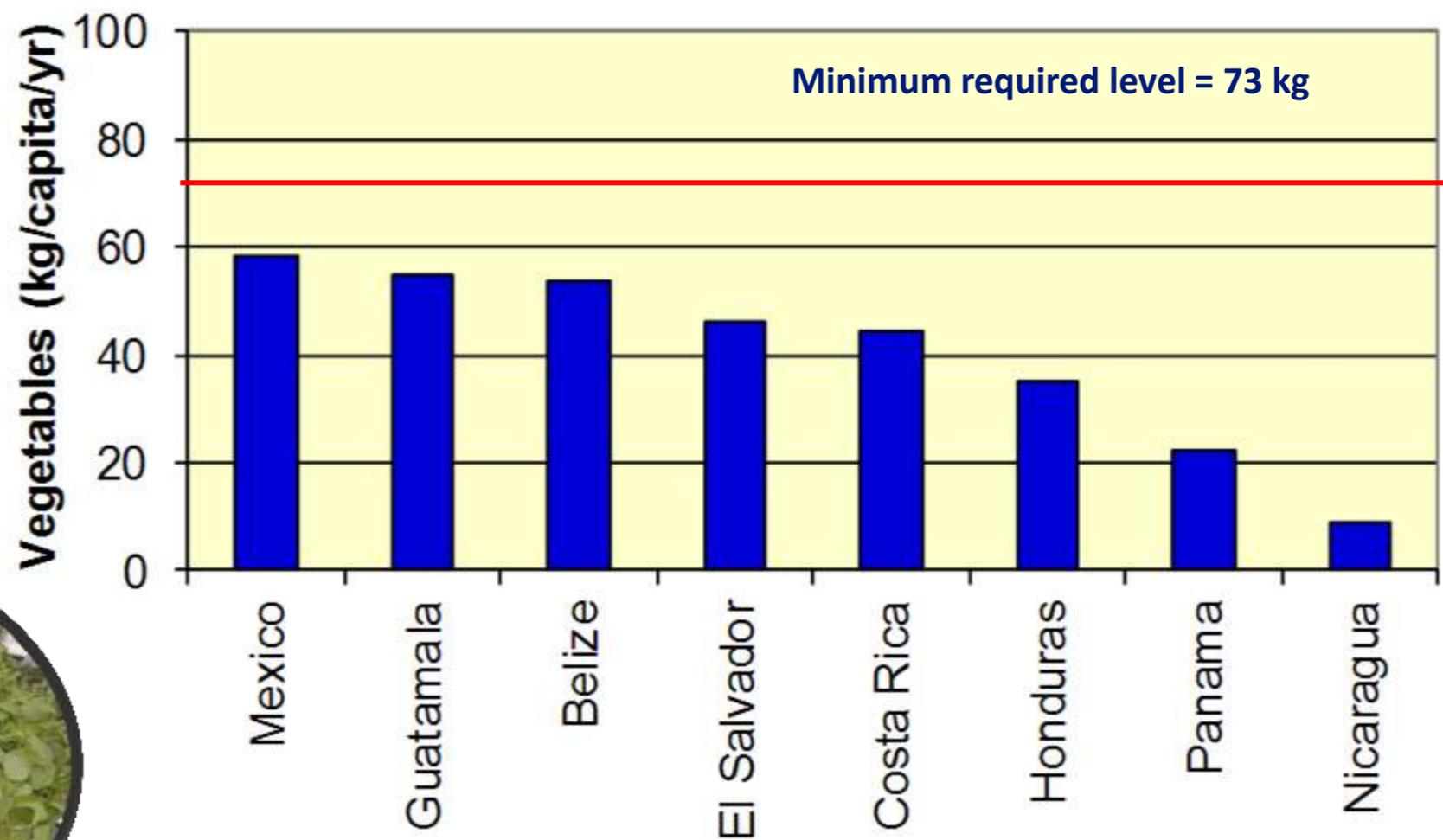
Why Horticulture?

- ▶ High value crops – income generation and diversification
- ▶ Intensive farming on small plots possible
- ▶ Nutritional benefits of diet diversification
- ▶ Women are heavily engaged in horticulture crop production and marketing



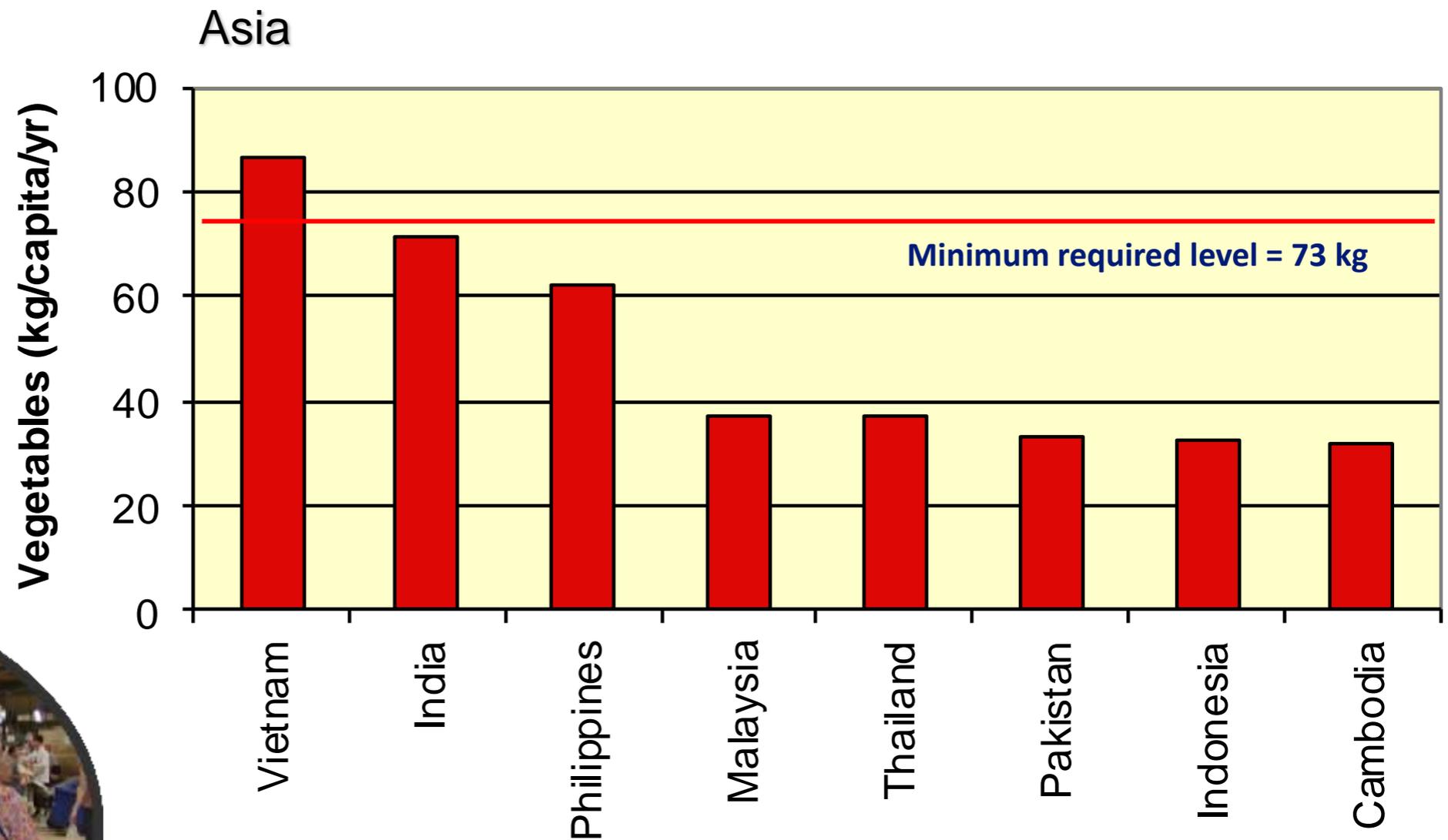
Consumption of Horticultural Products Remains Very Low in Much of the Developing World

Central America



Source: FAOSTAT, 2004. Data for 2001.

Consumption of Horticultural Products Remains Very Low in Much of the Developing World

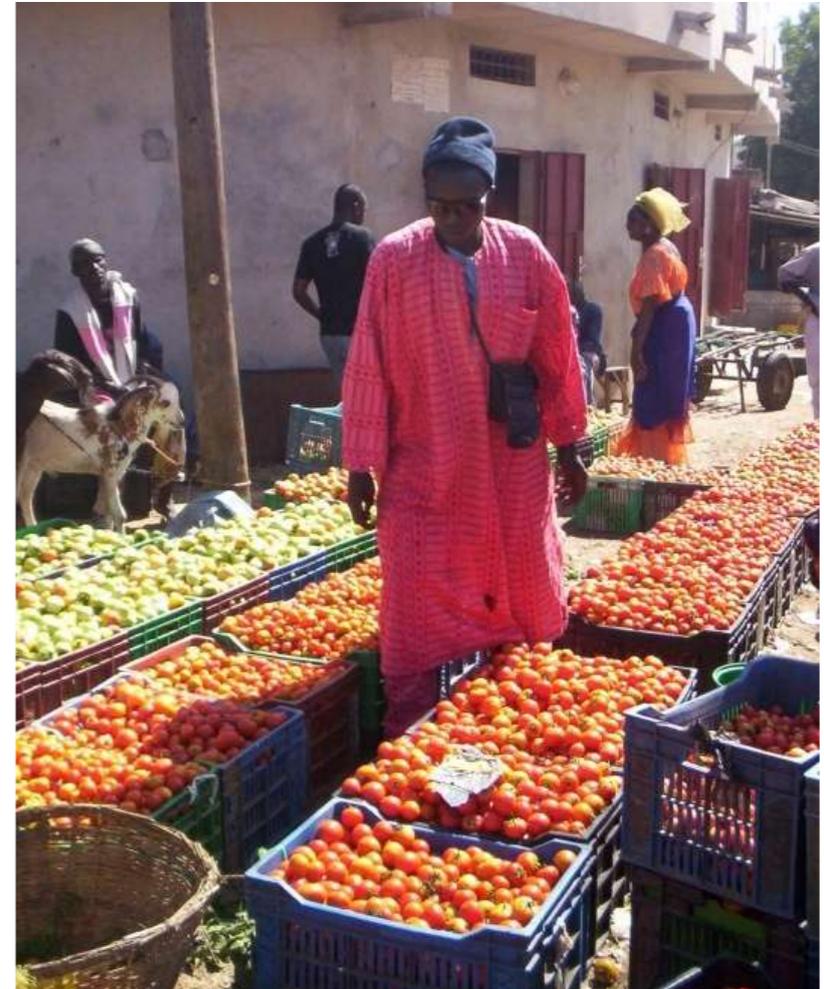


Asia

Source: FAOSTAT, 2004. Data for 2001.

Objectives of Horticulture CRSP

- ▶ To apply research findings and technical knowledge to increase smallholders' participation in markets
- ▶ To build local scientific and technical capacity
- ▶ To facilitate the development of policies that improve local horticultural trade



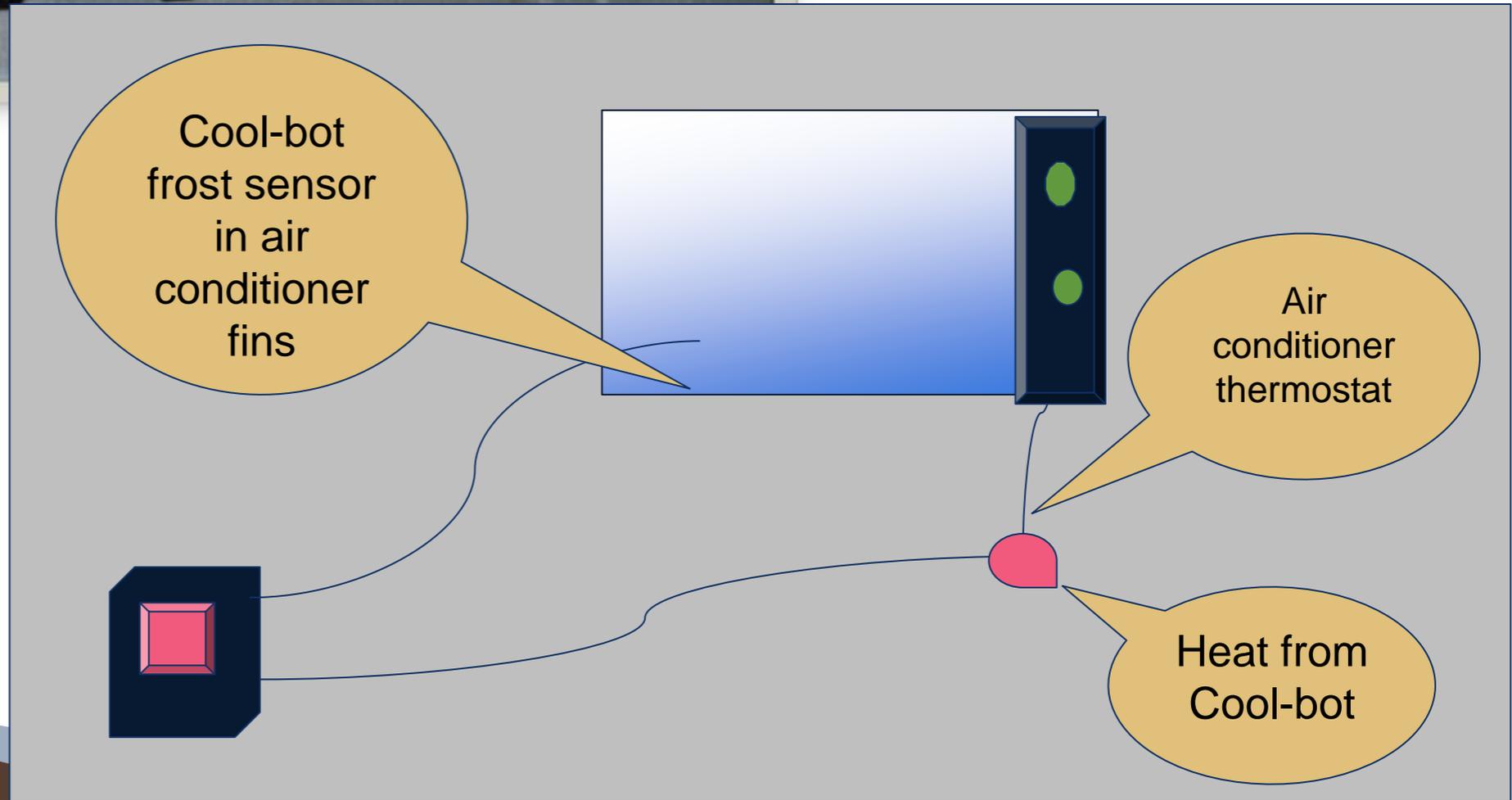
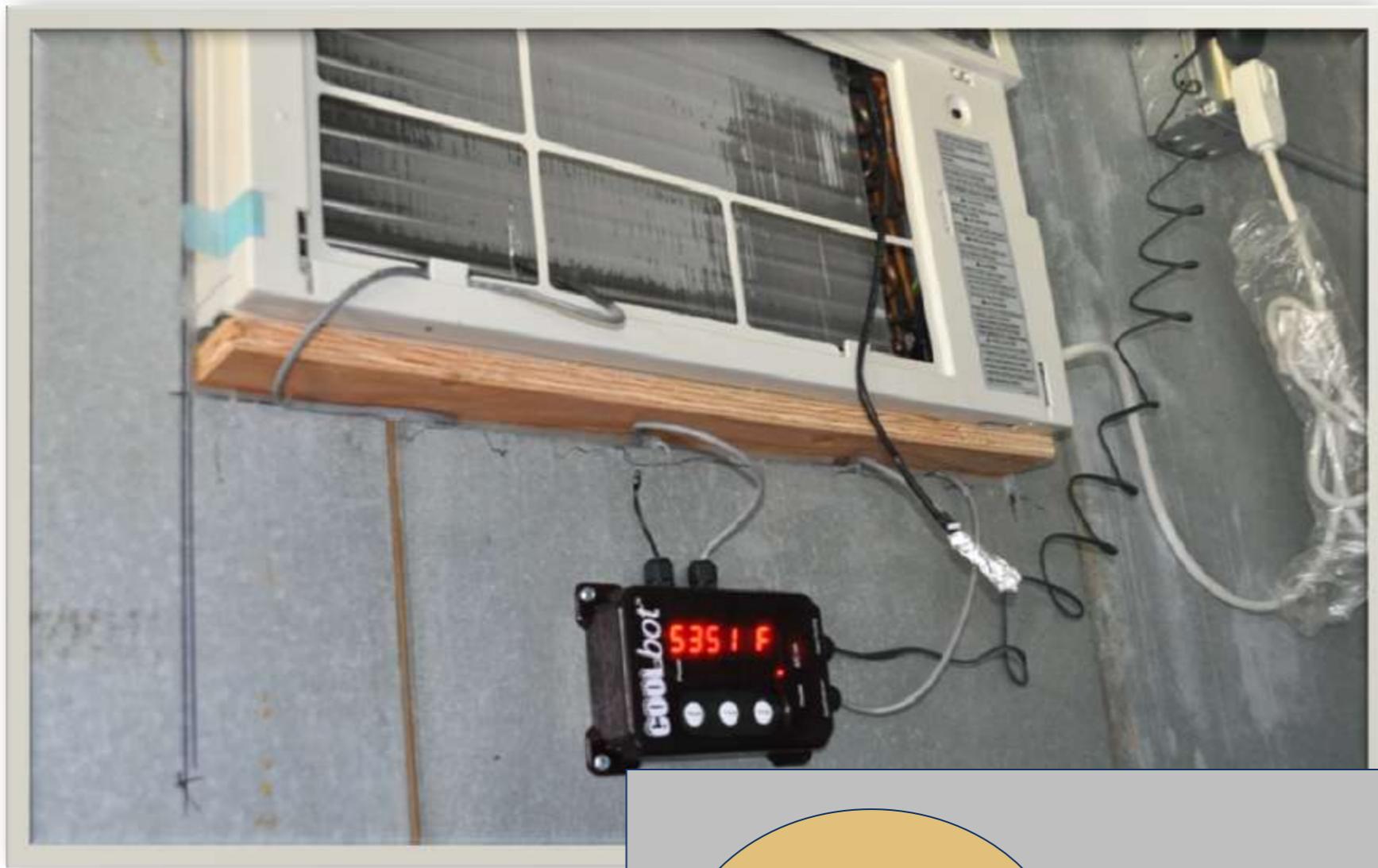
Technologies Developed by Horticulture CRSP Scientists

CoolBot Technology

UC Davis
Zamorano

- ▶ Coolrooms and Cool Transport for Small-Scale Farmers in India, Uganda and Honduras





Protected Agriculture

- ▶ Bielinski Santos (U of Florida) and partners created PAINet to educate Central American farmers on novel production practices once only within reach of rich farmers.



Building an Ornamental Plant Industry in Honduras

UCDavis
Zamorano



Pest Exclusion Nets

Michigan State
KARI - Kenya
CIRAD - France



New Technology for Postharvest Drying and Storage of Horticultural Seeds in India, Nepal and Thailand

UCDavis
iDE – Nepal & Bangladesh



Phytophthora Diagnostics Training

- ▶ Jean Ristaino (NC State) and partners trained 24 plant diagnosticians from 9 Latin American countries who in turn served farmers working nearly 9,000 hectares



Solar Dryer Comparison

UCDavis

Ministry of Agric., Tanzania



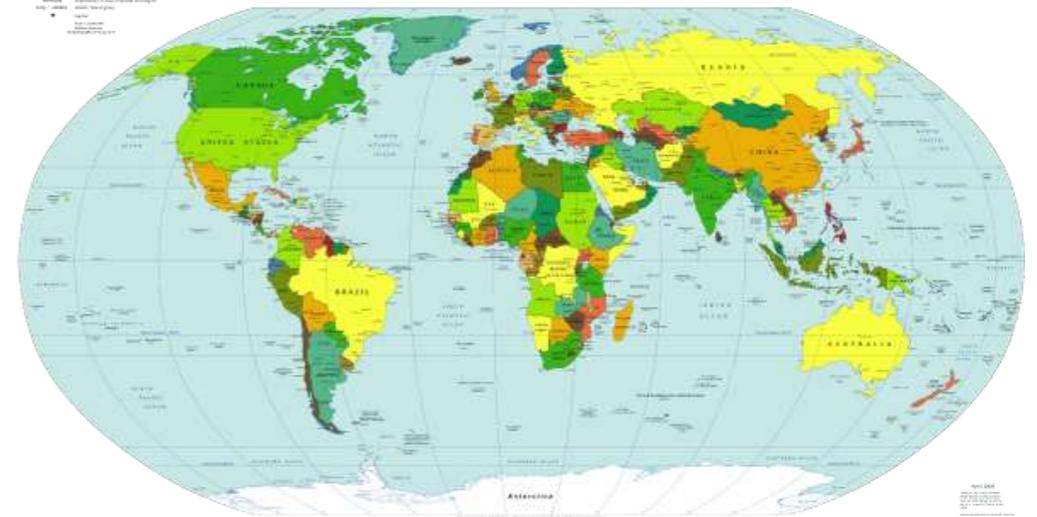
Horticulture CRSP

Regional Innovation Centers

- ▶ Establish in regional institutions with recognized leadership in horticulture
- ▶ Will become regional foci for Horticulture CRSP activities

- Training
- Technology demonstration
- Adaptive Research
- Outreach
- Information

Political Map of the World, April 2006



Locations:

- Thailand – Kasetart University
- Honduras – Zamorano
- Kenya – KARI Thika

Regional Centers of Innovation

- ▶ Showcase and adapt horticultural technologies
- ▶ Conduct regional trainings in collaboration with other institutions in the region
- ▶ Disseminate information about effective horticulture technologies
 - Using a variety of formats
- ▶ Steering committee comprised of members from various institutions and countries in the region
 - Set direction for activities supported at center
- ▶ Seek additional funding opportunities to augment Horticulture CRSP funding to meet objectives

Horticulture CRSP Regional Center of Innovation at Kasetsart University

Established at Kasetsart University, Thailand
February 8, 2012

Hort CRSP
Regional Innovation Center
at Kasetsart University, Thailand
Grand Opening Ceremony &
Workshop





Horticulture CRSP Center of Innovation at Zamorano

- ▶ Horticulture CRSP is very pleased to initiate this collaboration with Zamorano
- ▶ We look forward to engaging others who work in horticulture throughout the region through this Center of Innovation
- ▶ Thank you to Zamorano for all their work to establish the center and prepare for the inauguration

Horticulture CRSP Regional Center of Innovation at KARI



Horticultural Practical Training Center – Thika, Kenya
Partnership between
National Agricultural Research Center and
Fresh Produce Exporters Association of Kenya (FPEAK)

The Center has 4 programs:

- Nursery
- Floriculture
- Vegetables
- Training
 - 1 day to 1 semester







Thank you!!

For more information:

<http://hortcrsp.ucdavis.edu>



Hort CRSP 

