LOW EMISSION DEVELOPMENT & CLIMATE-SMART AGRICULTURE

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Siem Reap, Cambodia
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OUTLINE

1. What are Low Emissions Development Strategies (LEDS)?
2. What is USDA doing related to LEDS?
3. Opportunities for future collaborations

LOW EMISSION DEVELOPMENT STRATEGIES (LEDS)

Key objectives:

- reduce greenhouse gas emissions
- increase resilience to climate change impacts
- achieve social, economic and environmental development goals

Platforms:

- LEDS Global Partnership
- Enhancing Capacity for LEDS (EC-LEDS) – USG interagency initiative

Synergistic to Climate-Smart Agriculture, with development goals more explicitly being spelled out in terms of agricultural productivity

USDA & LEDS

Leveraging technical expertise within the department and at US land-grant universities, such as:

- Agricultural statistics
- Agrometeorology
- Animal productivity modelling
- Climate and crop modelling
- CSA technology development
- Econometric modeling and cost-benefit analyses of practices
- Linking science with policy
- Monitoring and evaluation
- etc.

USDA & ECLEDS 2011-2018

- **Costa Rica** – Implementation of Livestock Nationally Appropriate Mitigation Action (NAMA)
  - USAID, Min. of Agr, Min. of Env, CATIE, Univ. Wisconsin, ICRAF
- **Mexico** – Agriculture GHG monitoring protocols from cereals, nitrous oxide emissions factors
  - Min. of Agr, CIMMYT, COLPOS, Michigan State University
- **Vietnam** – Improved water and fertilizer use in rice and feed and waste management in livestock
  - Min. of Agr, NAEC, UCDavis, Univ. of Arkansas
- **Kenya** – Protocols for quantifying emissions from CSA practices, scientific exchange programs
  - Min. of Agr, ICRAF, FAO, Cornell, Univ. of Florida

OPPORTUNITIES

- Expansion of USDA EC-LEDS work in Asia under exploration
- Strengthen links between REDD+ and LEDS across landscapes e.g. Agroforestry;
- Sharing lessons and tools with interested country counterparts
  - Leverage the LEDS-GP and EC-LEDS platforms
  - Link with the NDC Leadership Compact initiatives
- USDA works with other USAID missions on climate-smart agriculture outside explicit LEDS work
  - e.g. CSA program with FTF Tanzania - leveraging expertise towards government capacity building needs

THANKS

USDA ECLEDS programs

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SUPPLEMENTAL SLIDES

LEDS GLOBAL PARTNERSHIP

Building skills in low emission development and Nationally Determined Contributions (NDCs) implementation

Working Groups

- Agriculture, Forestry and Other Land Use
- Benefits
- Energy
- Finance
- Subnational Integration
- Transport

- peer learning, technical assistance, knowledge resources, and early mover projects
- formation and implementation of LEDS
- 79 countries, 300 institutions
- 3 regional platforms, 6 technical working groups
- CSA -> AFOLU group, initiated at Asia LEDS 2013 mtg

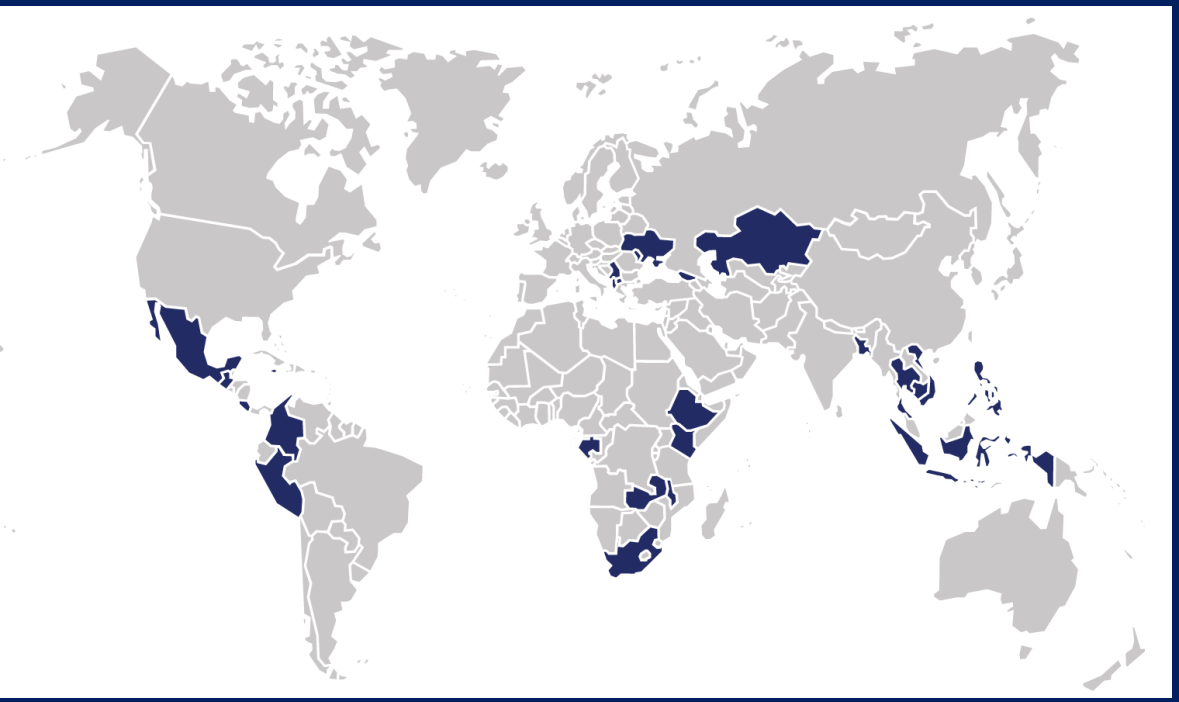
ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS)

US Government interagency effort to assist countries developing and implementing LEDS

Works with partner countries on:

1. Targeted technical assistance
2. Building shared knowledge base on LEDS

EC-LEDS: WHERE & WHAT



Planning

- Supporting institutions
- Greenhouse gas (GHG) inventories
- Data and analysis

Action

- Clean energy
- Sustainable landscapes

USDA EC-LEDS VIETNAM

Current: Managing beef and dairy cattle for productivity and low emissions

- Partners: Ministry of Agriculture and Rural Development (MARD), National Agriculture Extension Center (NAEC), UC Davis
- Output: Beef and dairy cattle Least Cost Ration Formulation Programs
- Training extension officers how to improve feed recommendations, based on locally available feed, to increase productivity and decrease emissions

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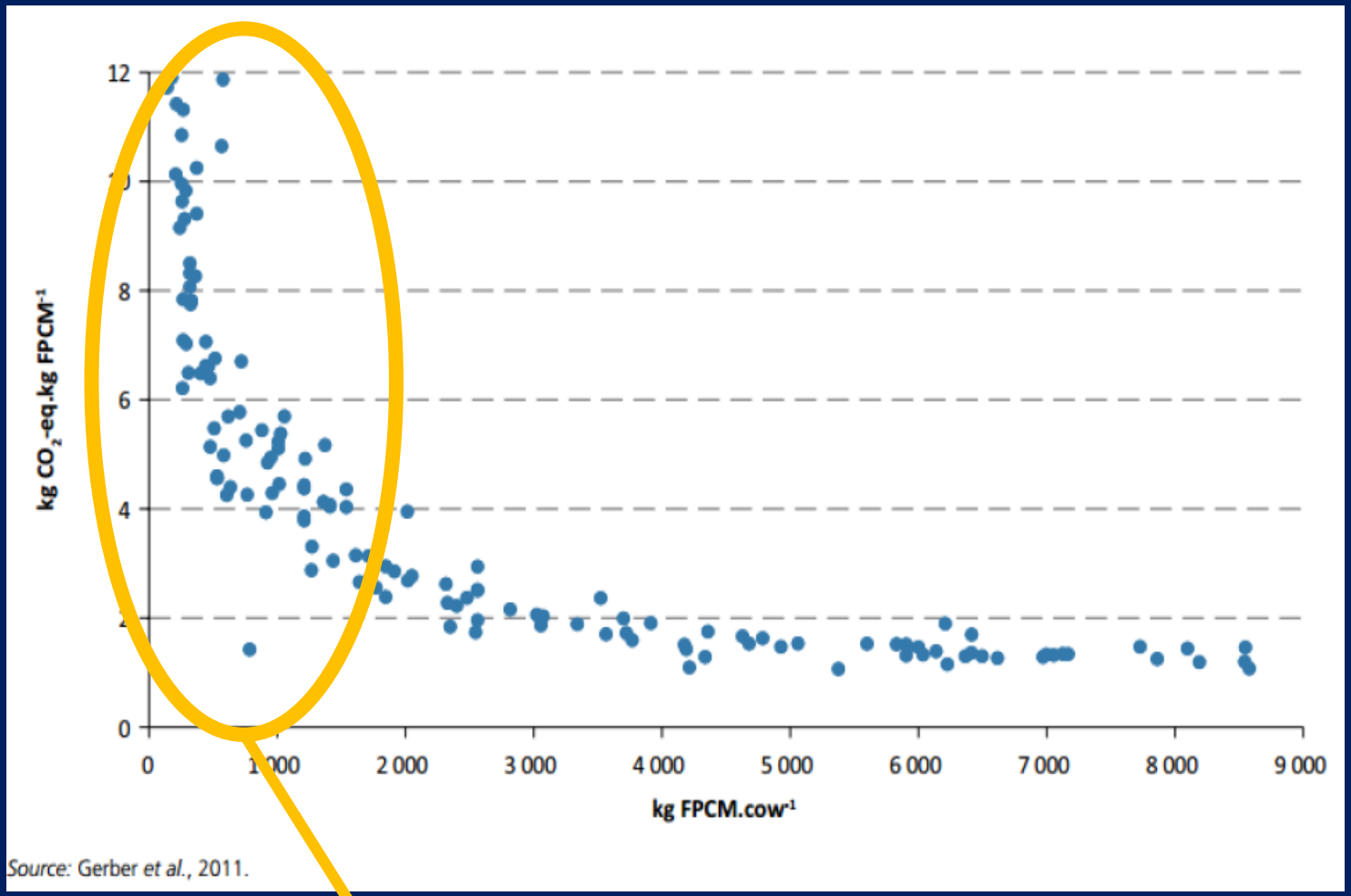
Relationship between productivity and emissions intensity (kg fat and protein correct milk (FPCM) vs. kg CO2 equivalent/kg FPCM)

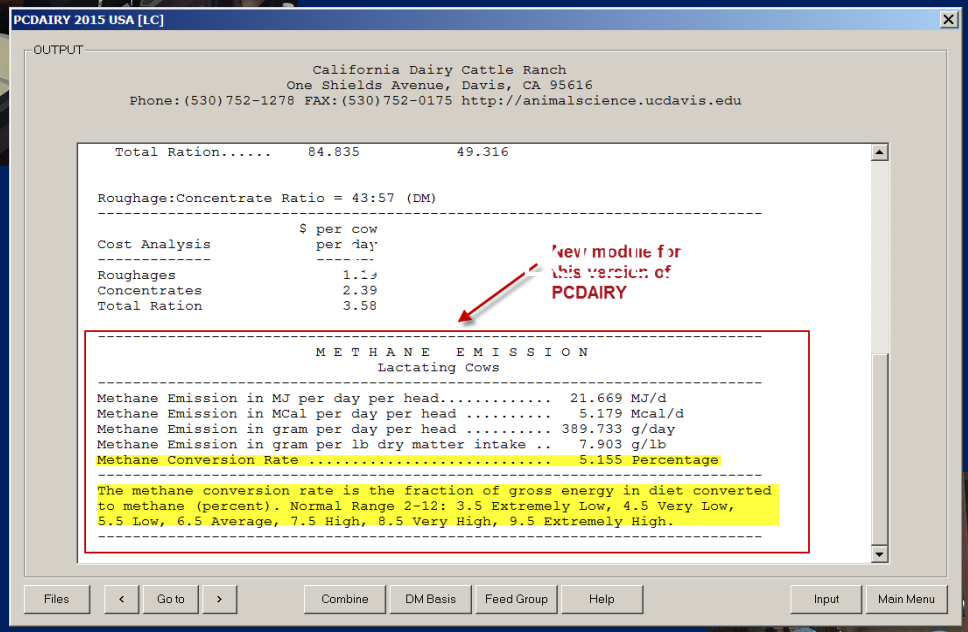


Increased 0roductivity and decreased emissions intensity coupled for cows producing <2000kg FPCM/yr

TAURUS & PCDAIRY SOFTWARE UCDAVIS

USDA

UCDAVIS UNIVERSITY OF CALIFORNIA



Trainings:
2015 Taurus
2016 PCDairy

Software in English and Vietnamese (&Spanish PCDairy)

NEXT STEPS

- Scaling results through extension system
- Local case studies & recommendations
- Factsheets for farmers

ADDITIONAL CONTACTS

Taurus and PCDairy software: Ermias Kebreab, ekebreab@ucdavis.edu

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LEDS-GP AFOLU working group: afoul@ledsgp.org