



RESEARCH PROGRAM ON  
**Climate Change,  
Agriculture and  
Food Security**



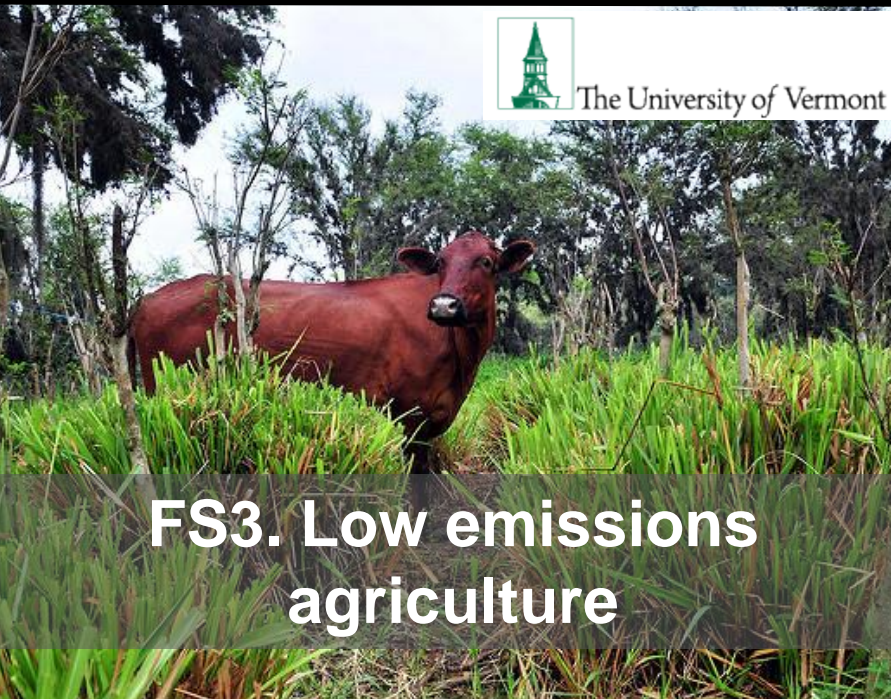
GRA-LRG and CCAFS collaboration



**FS1. Climate smart technologies, practices, and portfolios**



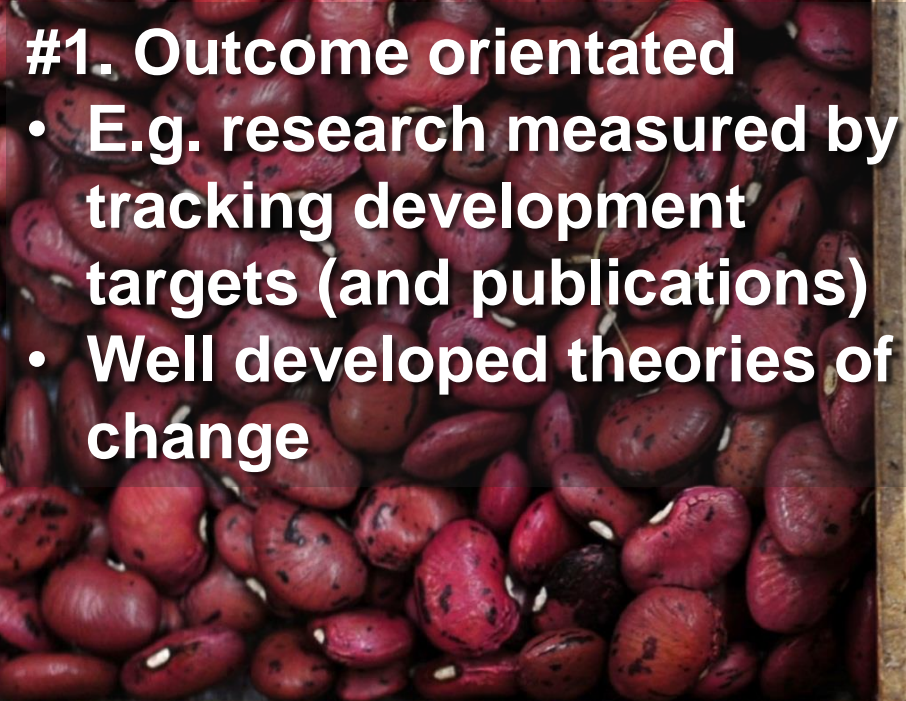
**FS2. Climate information services and climate-informed safety nets**



**FS3. Low emissions agriculture**



**FS4. Policies and institutions for climate-resilient food systems**



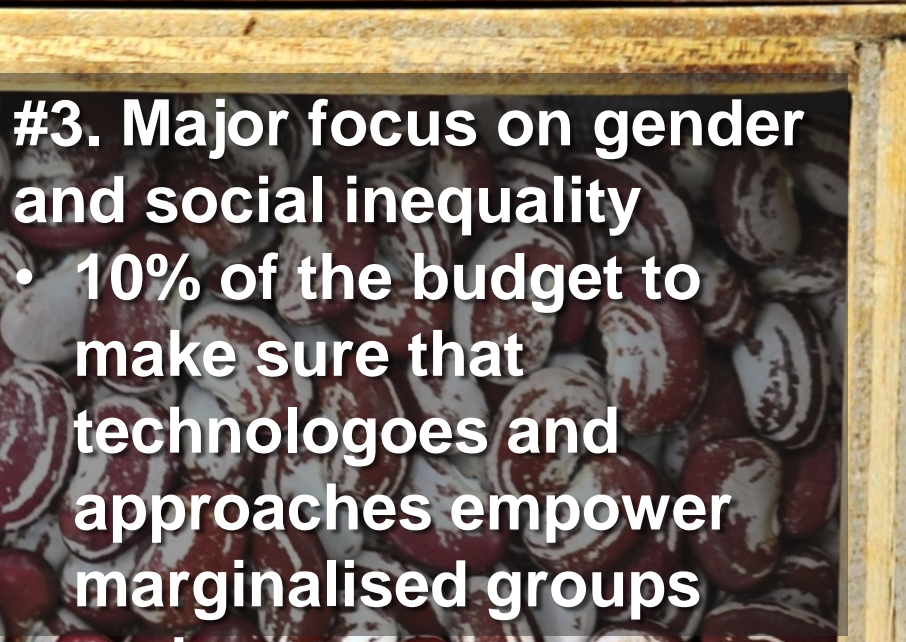
### **#1. Outcome orientated**

- E.g. research measured by tracking development targets (and publications)
- Well developed theories of change



### **#2. Partnership focussed**

- Involves all 15 CGIAR Centres and non-CGIAR Centres
- Development partners are crucial for success



### **#3. Major focus on gender and social inequality**

- 10% of the budget to make sure that technologoes and approaches empower marginalised groups



# #4. Part of the development process

**Working with partners to  
change opinions and  
worldviews**



Research evidence

Policy and  
Institutional Change

**Working with  
partners to  
understand  
what works**



CSA implementation



**Working with  
partners to  
make it  
happen**



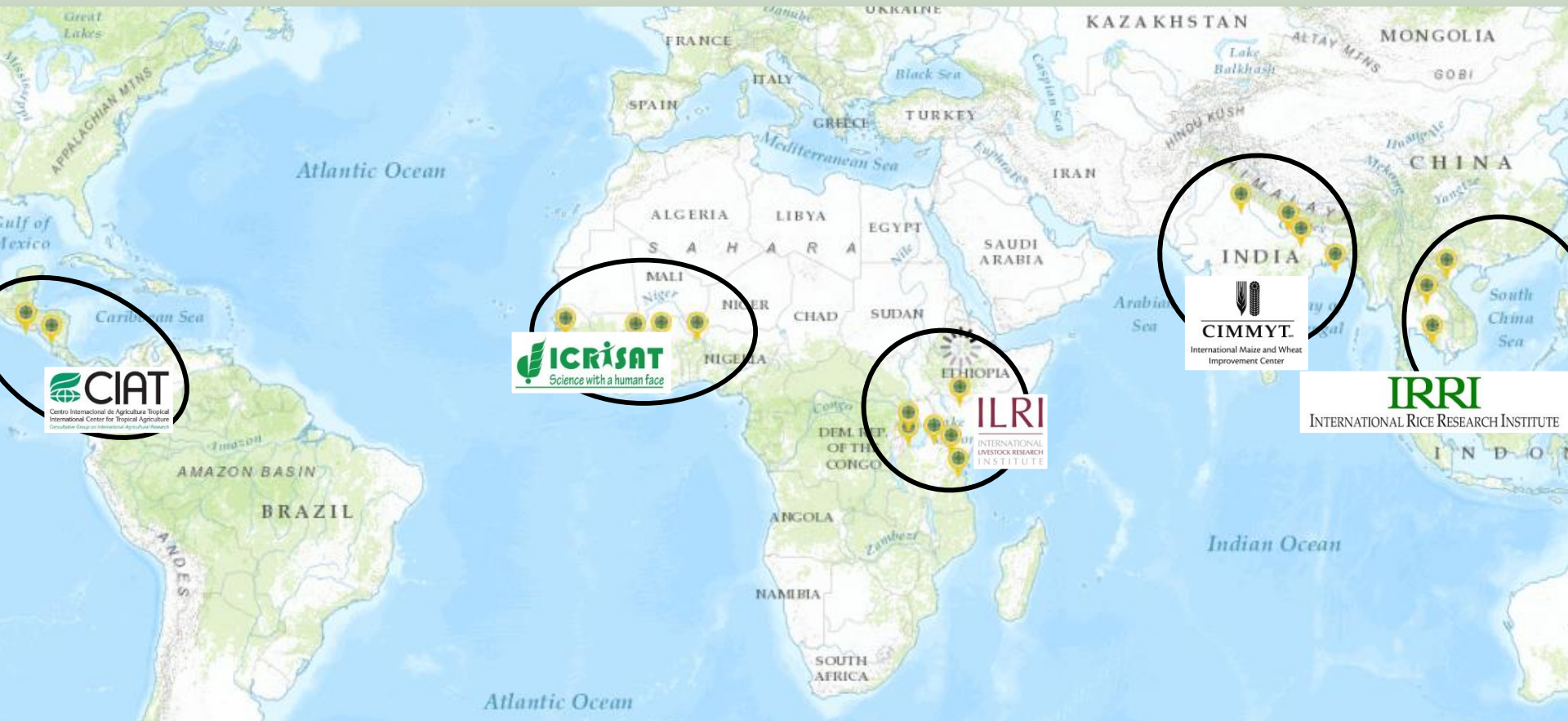
# Regional Programs



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CCAFS core sites, with projects fitting into an impact pathway:  
activities → outputs → outcomes → impacts



- Testbeds for suites of adaptation and mitigation options
- Platforms for co-location and engagement
- A model for scaling up appropriate interventions

# Flagship 3: Low emissions agriculture



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**GHG  
quantification**



**Supporting  
LED decisions**



**Low-emissions  
development  
solutions**

# Previous CCAFS-GRA collaborations

## Workshops and trainings

- LRG and CCAFS collaborated on GHG inventory training (with ILRI and CIAT) in 2012
- Suggestions of workshop participants (2014, 2015)
- GRA and CCAFS share calls for funding within our respective networks (e.g. NZ-GRA's LEARN and CCAFS' CLIFF)

## Research and communications

- CCAFS and GRA had joint research planning meeting at CSA 2015 conference in Montpellier, France
- CCAFS and the LRG are currently co-producing case study briefs of success stories from GRA member countries
- Co-published blogs and news items

# CCAFS research on low emissions development in the livestock sector

- **Dairy NAMA design (Kenya)**
  - Improved feeding, dairy intensification
- **Scientific basis for livestock sector mitigation (Kenya, Uganda, Tanzania)**
  - Assessing mitigation measures (feeding, manure, herd management)
  - Efs for East Africa
- **LivestockPlus (Colombia, Costa Rica)**
  - Testing pasture improvement effects on enteric CH<sub>4</sub> and soil C, urine and manure patches
  - Methods for NAMA MRV
- **Public-private arrangements** for avoided deforestation and sustainability in the beef supply chain (State of Pará, Brazil)
- **Sustainable Intensification of Dairy Production in Indonesia** (with Wageningen UR)



## Potential collaborations 2016-onward

1. Guidelines for measurement, reporting, and verification (MRV) in livestock systems
  - For NAMAs, national reporting, and metrics for donors
  - Potential for workshop or expert group consultations, review paper
2. Training/capacity building
  - GHG measurement methods
  - Workshops, fellowships, training videos
3. Joint communications materials:
  - Climate-smart agriculture practice briefs
  - Case studies of country success
4. Prepare for the 2017 CCAC call and plan to submit joint proposal