

UF UNIVERSITY of FLORIDA

# Gender Dynamics in the Adoption of Climate-Smart Agriculture Practices: A Case Study in Cauca, Colombia

Taryn Devereux

(taryndev@gmail.com)







# 1. Objective

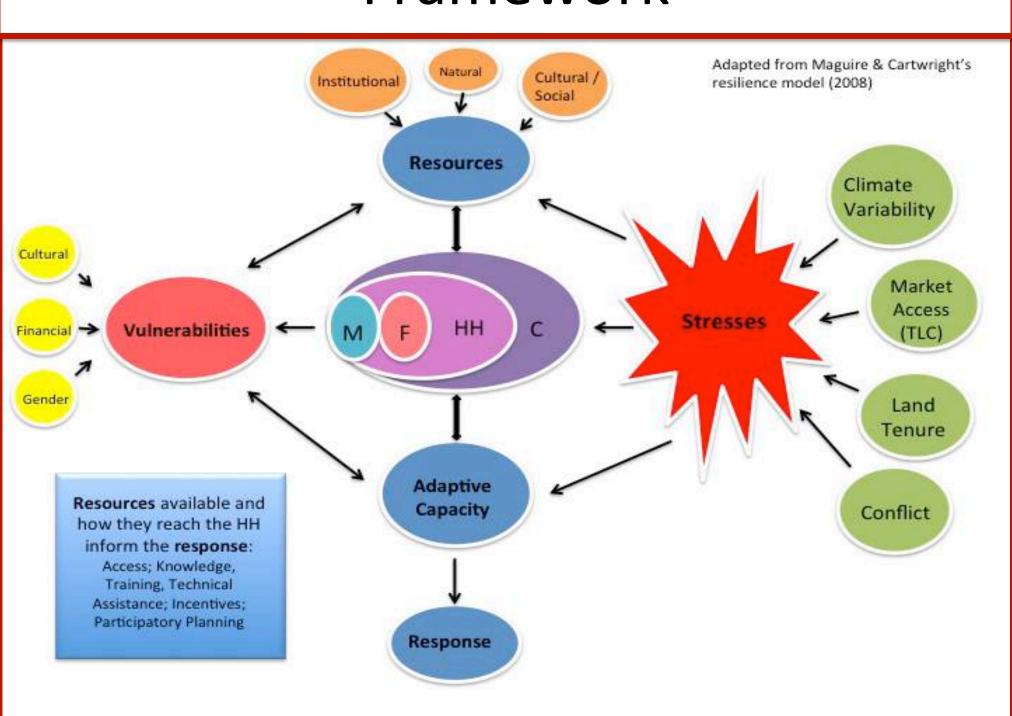
To enhance understanding of social networks by which men and women access information related to climate change in the Cauca, Colombia.

### 2. Research Rationale

Agriculture is a climate-sensitive activity. There is a critical need for "climate-smart" adaptation practices to address growing vulnerability, particularly in the tropics. Despite a growing body of research about the adaptive capacity of households, there persists a lacuna of data about the role of women in agriculture as it relates to adaptation strategies. This is critical as women are often agents for change and adaptation within the household.

The feasibility of climate-smart practices and technologies depends on an understanding of how information and innovation are diffused within and among communities. These channels of communication are a key mechanism by which novel climate-smart practices can become understood, trusted and adopted.

# 3. Conceptual/Contextual Framework



# 4. Methods & Design

**Gender-disaggregated, pilot questionnaire** (n=35)

- Productive Activities
- Resource Use & Ownership
- Decision-Making
- Access to News
- Climate Change Perceptions
- CSA Practices

#### **Participatory Activities**

- Venn Diagrams
- Seasonal Calendars
- Historical Timelines

Semi-Structured interviews w/ key community stakeholders

# Study Area: Río Piedras Basin

• **Area:** 6,626 Ha

Center for Latin Amer

Latin American Studies

UNIVERSITY of FLORIDA

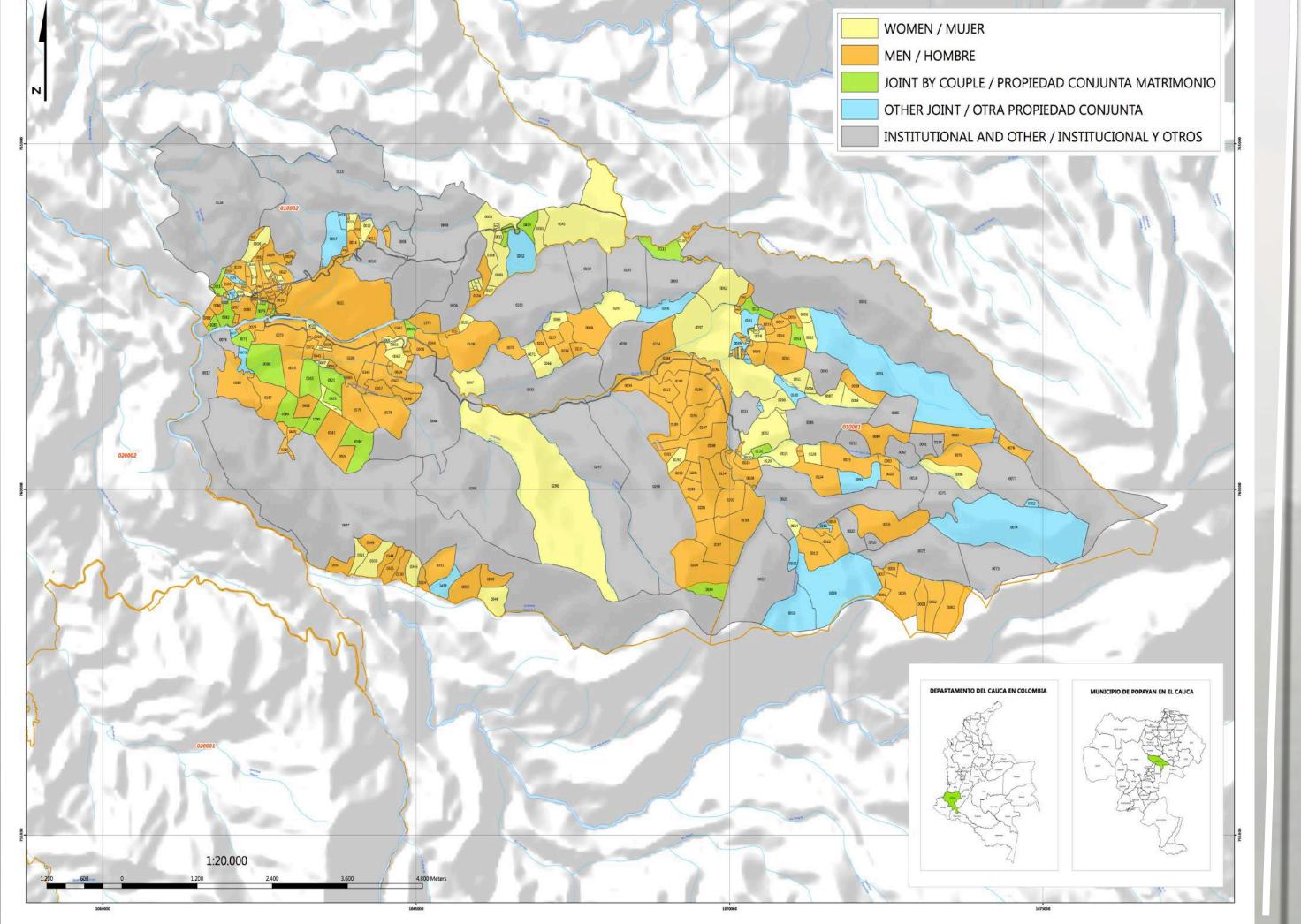
- Buffer Zone of Purace National Park
- Only *Páramo* Zone of the *Municipio* of Popayan
- Main Water Supply for the capital city of Cauca
- Semi-arid Tropics at 1750 mslm
- Semi-subsistence, extensive agriculture
- Smallholder, campesino farmers
- High level of institutional activity & community organization

#### **Regional Boundaries:**

- High Part: Quintana
- Middle Part: El Canelo & La Laguna
- Low Part: Las Huacas

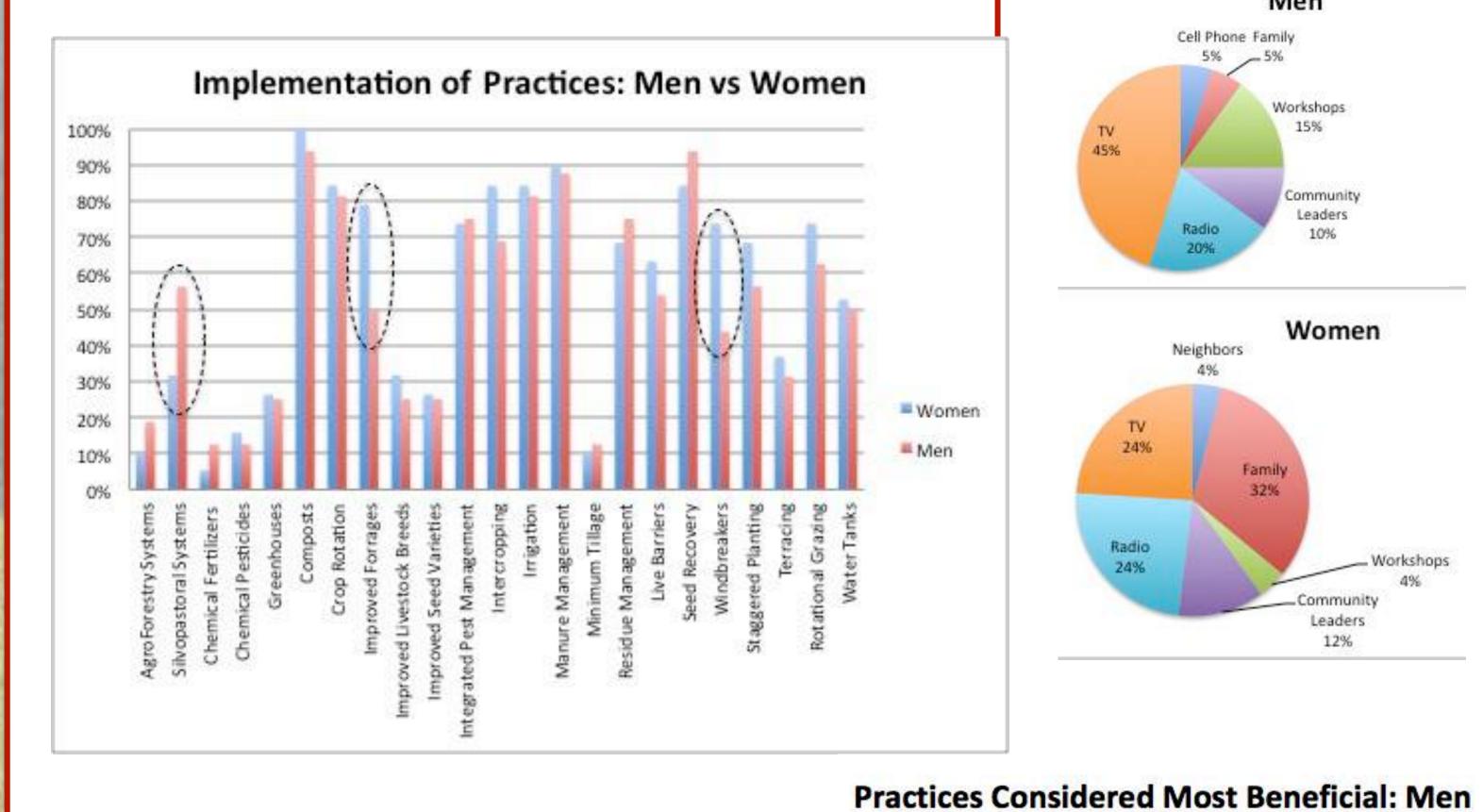






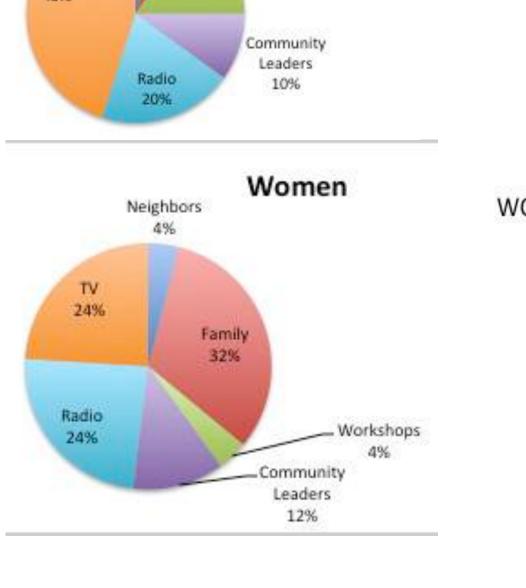
Venn Diagram

### 5. Results



Couple

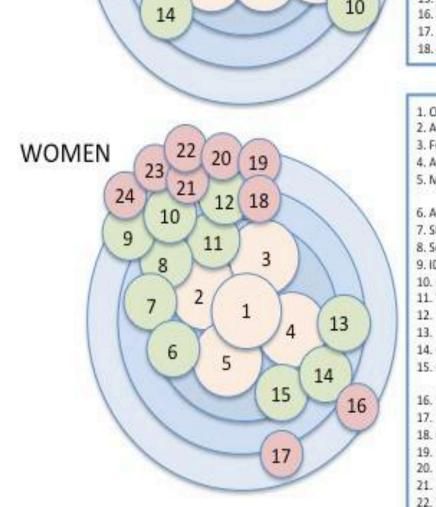
45%

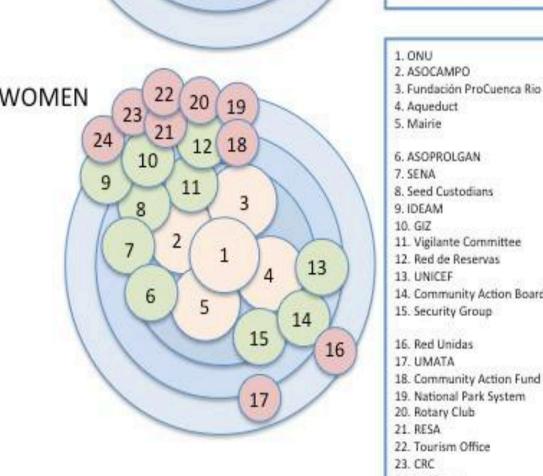


11.5%

11.5%

**Preferred News Sources** 





. Fundación ProCuenca Rio Piedras

22.50% 7.50%

"Workshops normally take place in the morning and the woman usually stays at home looking after the children and doing other household chores, and lunch."

"Women sometimes speak very little. It is a cultural factor: He is the man of the house, the head of the household."

### 6. Conclusions

- Women and men have same high rate of global knowledge for the 23 CSA practices (88%), with the knowledge gap for specific practices equal or less than 10% for most practices.
- The data suggests that while women are more likely to have modified their activities due to effects of climate change, men largely make the decision within the household to implement a practice, and more frequently attend community meetings and workshops.
- Men's preferences were distributed across a much wider range of practices, and they typically cited a wider variety of sources of information in terms of learning about the practice and their decision to use it on their farms.
- There is a large gender gap in terms of land ownership within the watershed, with only 20% of the properties titled in the name of women individually, and in livestock ownership, with women as owners only 10% of the time.
- Insecure land tenure and smaller properties might influence the level at which women are willing to invest long term in their land and adopt new farming practices.

# 7. Future Challenges

Given the stated gender dynamics, the task at hand:

- 1. The suitability of a CSA practice for a particular context;
- 2. The benefits it will provide;
- 3. Who will benefit;
- 4. The potential sustainability of this practice over time.

## 8. Acknowledgements

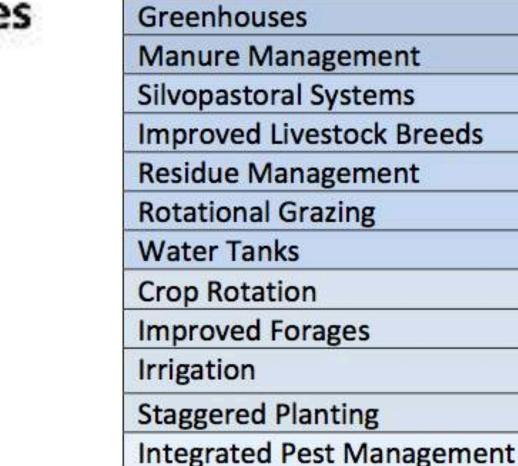
Chair: Dr. Carmen Diana Deere Committee Member: Dr. Sandra Russo In-country supervisor: Dr. Jennifer Twyman Research Team: Mariola Acosta Frances & Seth Marsala-Bell







Entire Family



Intercropping

**Rotational Grazing Integrated Pest Management** Manure Management Crop Rotation Intercropping Seed Recovery Silvopastoral Systems Greenhouses Improved Forrages Residue Management **Live Barriers** Water Tanks Improved Seed Varieties Irrigation

Practices Considered Most Beneficial: Women