

Climate Smart Territories in Central America: Nicacentral and Trifinio (MAPNoruega project)

CATIE

Turrialba, Costa Rica

3 March 2014

Development goals (SLO's)



Pobreza



Inequidad



**Inseguridad Alimentaria y
Nutricional**



Sostenibilidad Ambiental



Cambio Climático

- **R1. Family:** 5.000 families, gender, food and nutritional security
- **R2. Farms:** 5.000 farms, agroforestry innovations in homegardens and other land uses
- **R3. Value chains:** 30 farmers' organizations, 8 value chains
- **R4. Territorial governance:** municipalities, other governance platforms
- **R5. Scaling out**

Others

**Scaling
out**

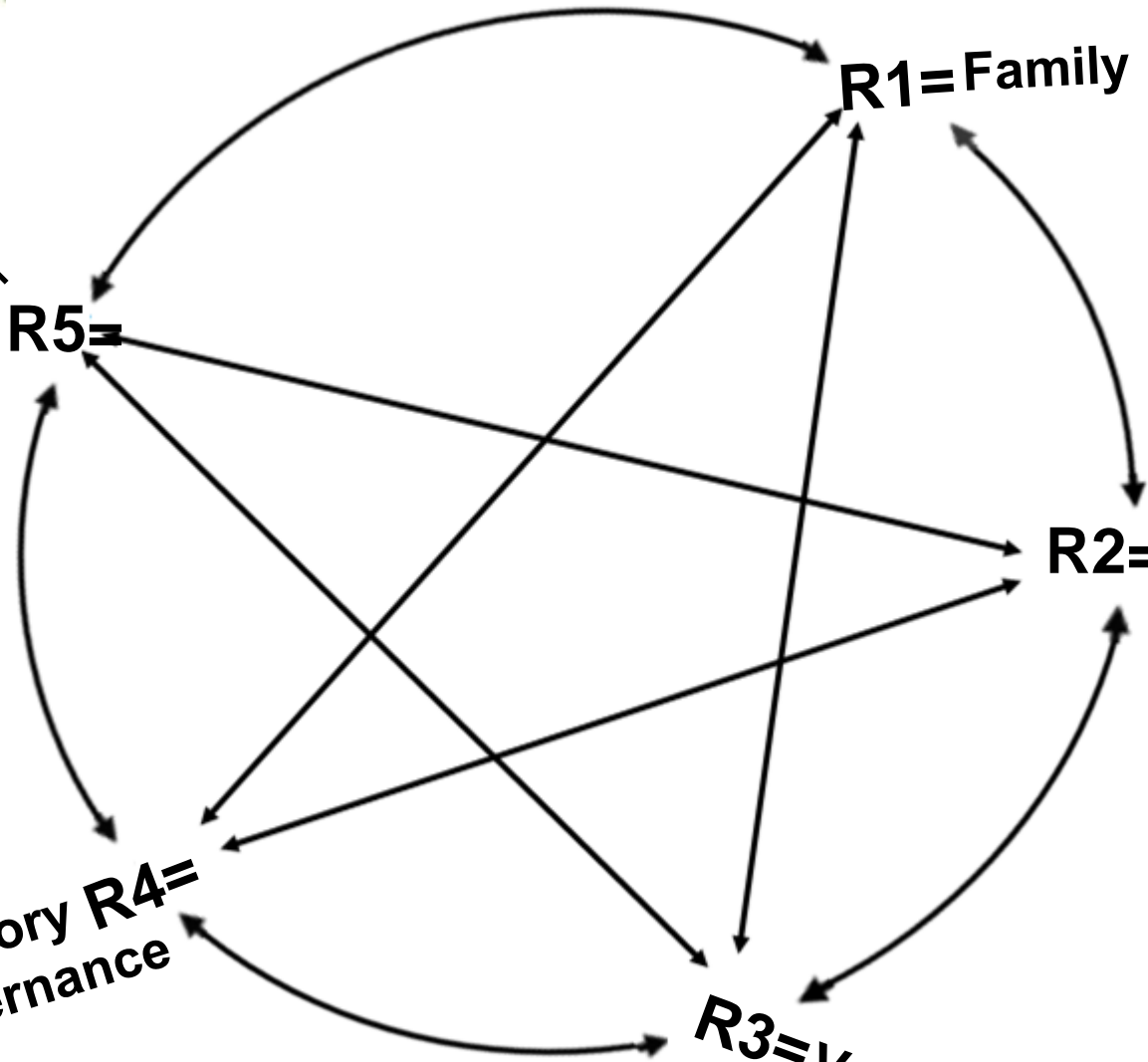
R5=

R1= Family

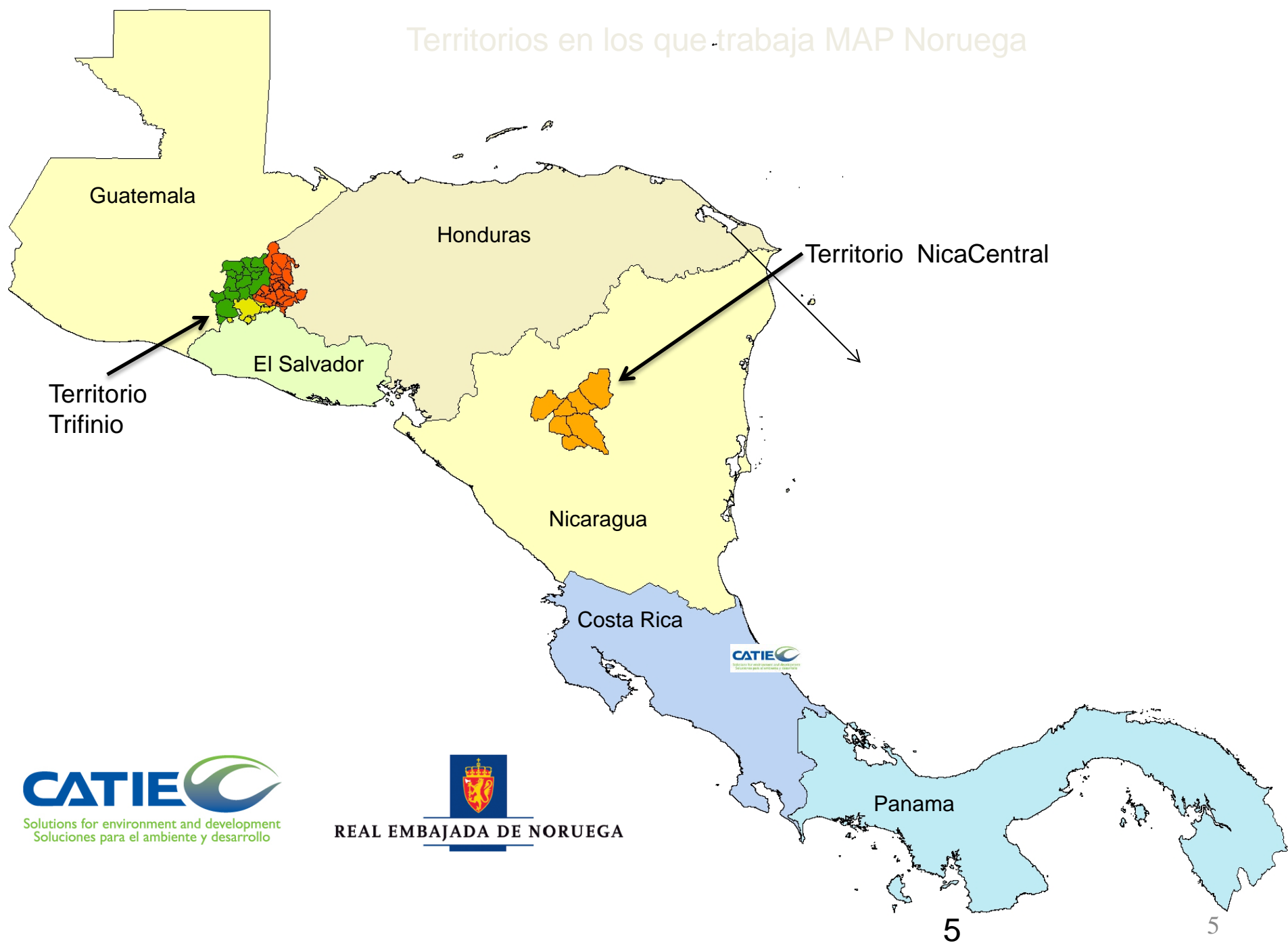
R2= Farm

**Territory R4=
governance**

R3= Value chain



Territorios en los que trabaja MAP Noruega





Bay of Honduras

Guatemala

Honduras

El Salvador

Bay of Fonseca

Golfo de Fonseca

La Región del Trifinio: 7,541 km²

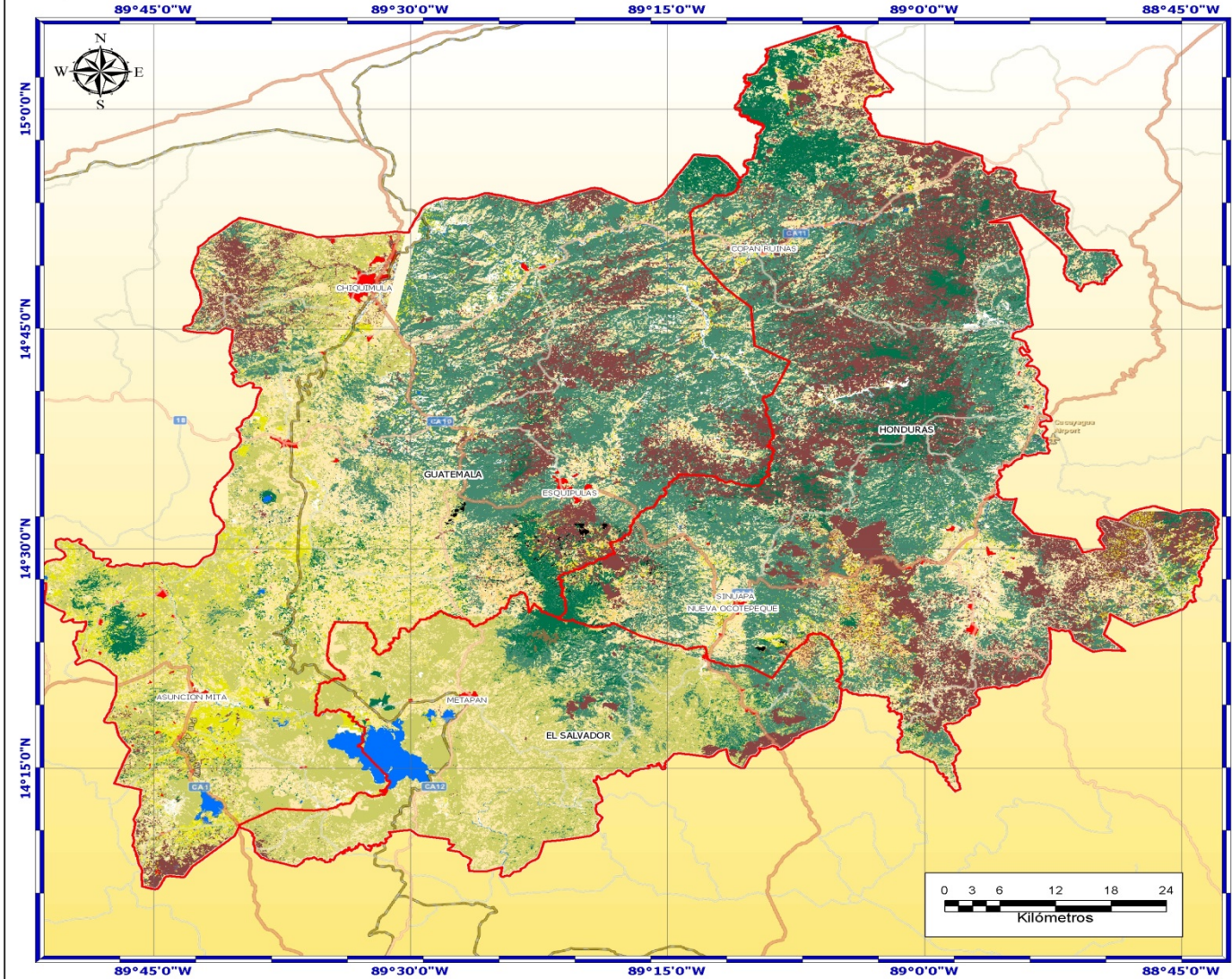


Image © 2006 MDA EarthSat

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MAPA DE USO / COBERTURA DEL SUELO REGIÓN TRIFINIO, 2012

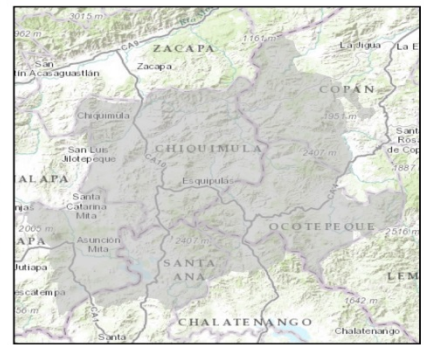


Leyenda

| | |
|---------------------|----------------------|
| Limite | CAFÉ |
| BOSQUE LATIFOLIADO | SUELO DESNUDO |
| BOSQUE CONÍFERAS | CUERPOS DE AGUA |
| BOSQUE MIXTO | ASENTAMIENTOS |
| B SECO, MAT, GUAMIL | OTROS |
| PASTO | VEG ACUÁTICA |
| CULTIVOS | PLANTACIÓN FORESTAL |
| | World Transportation |

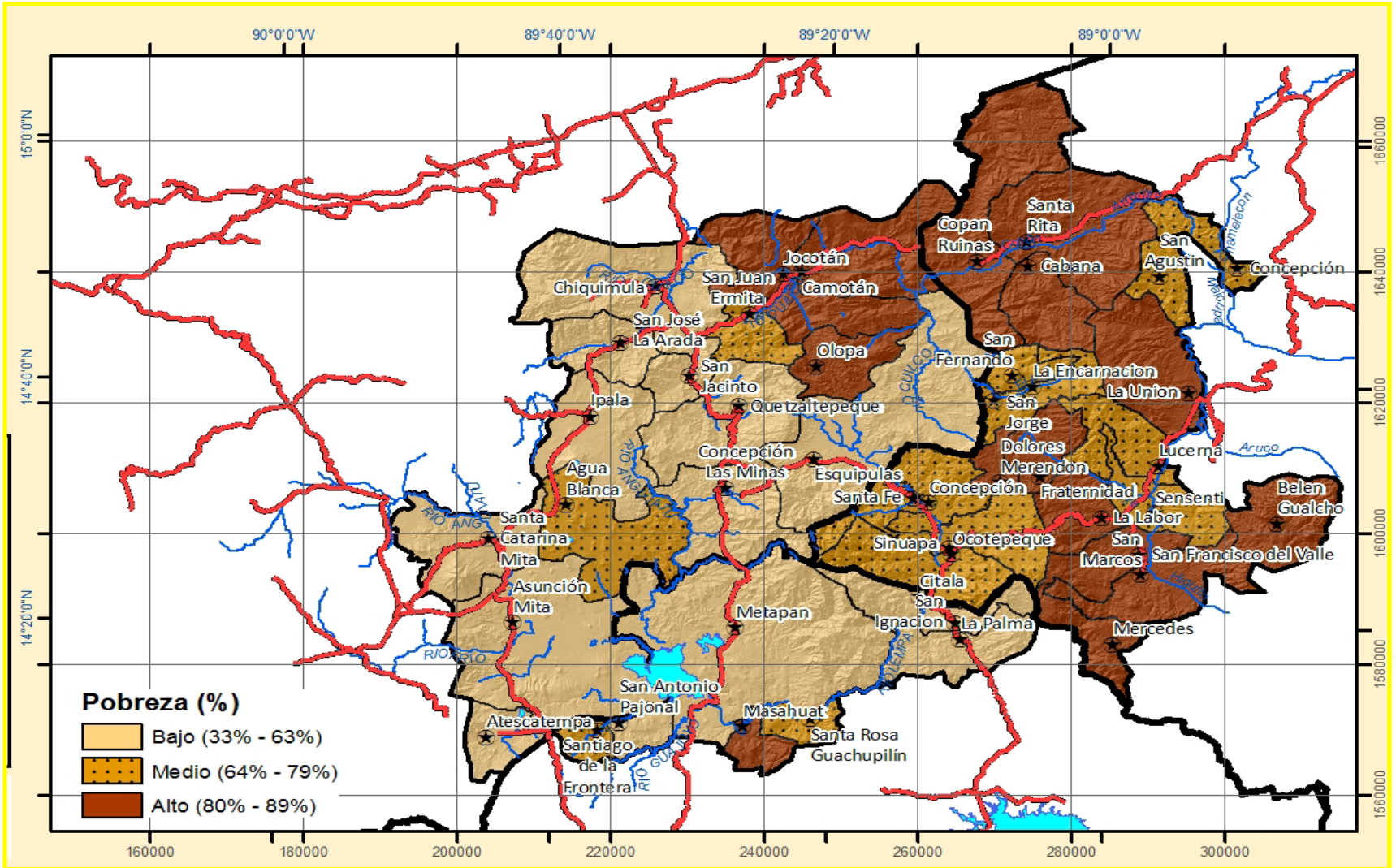
Fuente: Proyecto FINNFOR
 Preparó: Christian Brenes Pérez
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Proyección: Sistema de Coordenadas Geográficas, Datum WGS84
 CATIE, Turrialba, Agosto, 2013

| USO/COBERTURA | HA | % |
|-------------------------------|-----------------|------------|
| PASTO | 189123.1 | 25.7 |
| BOSQUE CONIFERAS | 179067.5 | 24.4 |
| BOSQUE SECO, MATORRAL, GUAMIL | 130413.5 | 17.7 |
| CAFÉ | 119541.9 | 16.3 |
| BOSQUE LATIFOLIADO | 48098.9 | 6.5 |
| CULTIVOS | 31017.7 | 4.2 |
| SUELO DESNUDO | 15488.8 | 2.1 |
| BOSQUE MIXTO | 10678.9 | 1.5 |
| CUERPOS DE AGUA | 6307.1 | 0.9 |
| ASENTAMIENTOS HUMANOS | 3791.7 | 0.5 |
| SOMBRAS | 578.3 | 0.1 |
| NUBES | 474.9 | 0.1 |
| VEGETACIÓN ACUATICA | 355.5 | 0.048 |
| PLANTACIÓN FORESTAL | 279.7 | 0.038 |
| ÁREAS QUEMADAS | 10.2 | 0.001 |
| TOTAL | 735227.9 | 100 |

MAPA DE POBREZA DE LA REGION TRIFINIO





6,500 Km²

3 departamento

8 municipios

360,000 habitantes

25 familias

30,000 fincas

Mas de 400 comunidades

Farming with trees in Trifinio and Nicacental



Homegardens and patios...5000



Farm (R2)

- Increased farm agro-biodiversity
 - Introduction of new varieties of industrial crops such as coffee and cacao, vegetables and other food crops adapted to local conditions, grasses and forage legumes, fodder shrubs, timber trees, high quality fruits.....

Crop diversification in homegardens and patios



Community vegetable gardens



Efficient use of firewood



Fruits





**Cordia
alliodora**

**Citrus
aurantium**

**Bactris
gasipaes**

**Theobroma
cacao**

Musa AAA

**Mixed shade over cacao. Deheuvels,
2011**

- More trees on farms
 - Trees on farms provide habitat for wildlife and local flora, conservation of soil and water, storage of carbon, reduced emissions, cycling organic matter, increased adaptive capacity of family.....Need to use optimal design





Quezungual







Radically different institutional settings in both territories

- Territorial platforms available for the entire Trifinio territory. Individual municipalities in Nicaragua-Honduras
- High population density in Trifinio, lower population density in Nicacentral
- A good mixture of forest ecosystems in both territories
- Good development platforms operating in both territories

To do.....

- Set the experiment in motion in the two selected territories
- Monitor implementation and evaluate impacts in next four years
- Establish new links and cooperation agreements with our partners to joint forces and concerted actions in the territories in order to scale-out (and up) results, methodologies, tools developed for Trifinio and Nicacentral

Science and development...

we need a lot of long-term research....fortunately we already have close links with PCP/CIRAD-CATIE- Others and various CRPs of the CGIAR system.....

We need to link research, education and development in the territory

CATIE's social capital and on-going R&D projects can facilitate this.

We propose to animate/coordinate a Science, Education and Development platform

La Tropical

Thank
you

**JUGO DE CAÑA
AGUA DE PIPA
MANGO CELE
DE URABYE**

