

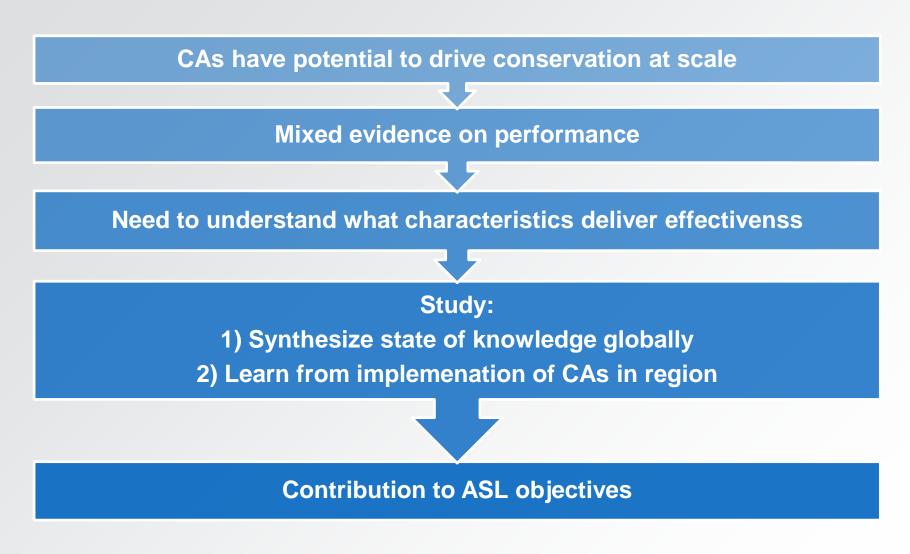


Amazon Sustainable Landscapes Program

# Conservation Agreements in the Amazon: A comparative study

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# Motivation



- 1. Introduction
- 2. Study methodology
- 3. CA characteristics that contribute to effectiveness
- 4. Assessment of focal in-region CA programs
- 5. Recommendations

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#### Conservation agreements: logic

 For rural land owners, conservation costs often exceed benefits

CAs: External stream of benefits benefits conditional on conservation

Convert conservation to an economically attractive choice

#### Implementation to date

1. Rapid growth

#### 2. Evidence on performance mixed

Table 1. Summary of Impact Evaluation studies of PES programs					
Authors	Location	Outcome variable	Method	Finding	Impact
Alix-Garcia et al. (2012) Arriagada, Sills, Pattanayak, and Ferraro (2009)	Mexico Costa Rica	Forest cover Income and welfare indicators	Matching Matching	50% lower forest cover loss	Small None
Arriagada et al. (2012) Baylis et al. (2012)	Sarapiquí, Costa Rica Monarch Reserve, Mexico	Forest cover Forest Cover	Matching Matching	PES increases fores 11-1 PES improves outco management and legal protect	Small
Claassen et al. (2013)	United States	Adoption of conservation practices	Matching	High for structural practices; for nutrient management	modest Large
Costedoat et al. (2015)	Chiapas, Mexico	Forest cover	Matching	Additional forest conservation	n of 12– Large
Hegde and Bull (2011)	Mozambique	Welfare measures	Matching	14% income and	Small
Honey-Rosés et al. (2011)	Monarch Reserve, Mexico	Forest cover	Matching	Protected 200–710 ha of high habitat but smaller effect on r forestation 0–200 ha	
Jayachandran et al. (2016)	Uganda	Forest cover	Randomize Trial (RCT)	50% reduction in forest cover	loss Large
Pagiola et al. (2016)	Colombia	Environmental services index	OLS	Environmental gains permane years after PES payments stop	· •
Pufahl and Weiss (2009)	Germany	Agricultural intensity	Matching	Increase in grassland area, rec in livestock density and purch	luction Medium
Robalino and Pfaff (2013)	Costa Rica	Forest cover	Matching	0.2% • annual increase in for	est Small
Robalino et al. (2015)	Costa Rica	Forest cover	Matching	Higher additionality of PES it implemented away from prote	

Source: Börner et al., 2017

3. Why?

### Effectiveness

- 1. Additionality
- 2. Environmental importance
- 3. Contribution to social and related goals
- 4. Attractiveness

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Steps

- 1. Identify relevant CA programs in region
- 2. Identify characteristics that contribute to effectiveness globally
- 3. Evaluate relevant programs against characteristics
- 4. Generate recommendations

Sources of information: ToR, literature (CA and PES), national and international experts

Opinions and errors are the responsibility of the authors

# Identification of CA programs in region

Criteria	Subset included	
Location	Brazilian, Colombian or Peruvian Amazon	
Scale	National, State, (Site)	
Mechanism	Voluntary contracts and conditional payments	
Who runs the program	Government or partnership between Government/NGO/private sector	
Type of incentive provided	Broadly defined - cash, livelihood support, infrastructure	
Who conserves	Communities, individuals	
What behavior is incentivized	Broadly defined - standing forest, sustainable management, sustainable agricultural practices	

## **Programs assessed**

Country	Scale	Program	Age (yrs)
Brazil	National	Bolsa Verde (BV)	8 <sup>a</sup>
	State	Bolsa Floresta (BF)	11
Colombia	National	BanCO2	6
	Multi-state	Proyecto REM Visión Amazonía (REM)	6
	Multi-state	ACs dentro del proyecto Corazón de la Amazonia (CdA)	4 <sup>b</sup>
	Multi-state	Conservación y Gobernanza en el Piedemonte Amazónico (CGPA)	7
	Multi-state	Programa Desarrollo Local Sostenible en Parques Nacionales (PDLS)	2
Peru	National	Programa Nacional de Conservación de Bosques (PNCB)	9
	Site	Acuerdos de Conservación Alto Mayo (BPAM)	9

<sup>a</sup> Currently suspended

<sup>b</sup> Component of the ASL National Project, led by SINCHI in colaboration with the regional environmental authorities (*Corporaciones*)

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### Summary

	Location	Participants	Agreement	Benefits	Operations	Continuity
Broadly applicable	High risk of degradation High environmental value	Participants have rights, institutions, and capacity Voluntary	Clear conditionality	Differentiated payments but avoid complexity	Monitor Apply conditionality Quality implementation	
Context dependent or limited information	Poverty criteria Low opportunity costs Transparent criteria regarding where program operates	Enrollment by targeted people subsidized Trustful negotiation climate, incl. implementer legitimacy Informed deliberation Women involved Auctions	Reflect local reality Duration of Contracts Target easily measurable Leakage / spillovers considered Social motivations and free riding	Opportunity and transaction costs considered Deliberations on use (communal only) In kind benefits (communal in particular)	Operational efficiency Communications drawing on behavioral science Learning culture and procedures Internal clarity on program objectives	Incentivize economic transition Build relationships with Finance Ministries Links to CSR, offsets, taxes ES markets

#### Detail – where to operate

What's effective	Justification
Operate in areas with <u>high risk of</u> <u>degradation</u>	Targeting at-risk areas increases likelihood that participants will enroll land they plan to clear
Operate in areas that provide <u>high</u> environmental value	Environmental values are not uniformly distributed. Targeting can increase the share of those areas enrolled
3 others	

Examples from in region

- Identify and work in regions with higher deforestation
- Prioritize areas that create connectivity (CdA) or carbon (REM)
- Prioritize in and around PAs

#### Detail - continuity of program impact

What's effective	Justification
Incentivize economic transition	Using CA benefits to cover transition costs where alternatives are greener and more profitable can reduce the need to pay in perpetuity
Establish CA program as a vehicle for meeting corporate interests	Transparent and efficient delivery can make a CA program attractive for CSR. Quantifying impact can make CAs an option for meeting legal requirements like offsets
Establish the CA program as a vehicle for providing ecosystem services	Become the conduit through which beneficiaries pay for ES provision, eg., water payments by water utilities, or deforestation reductions as part of national REDD+ agreements

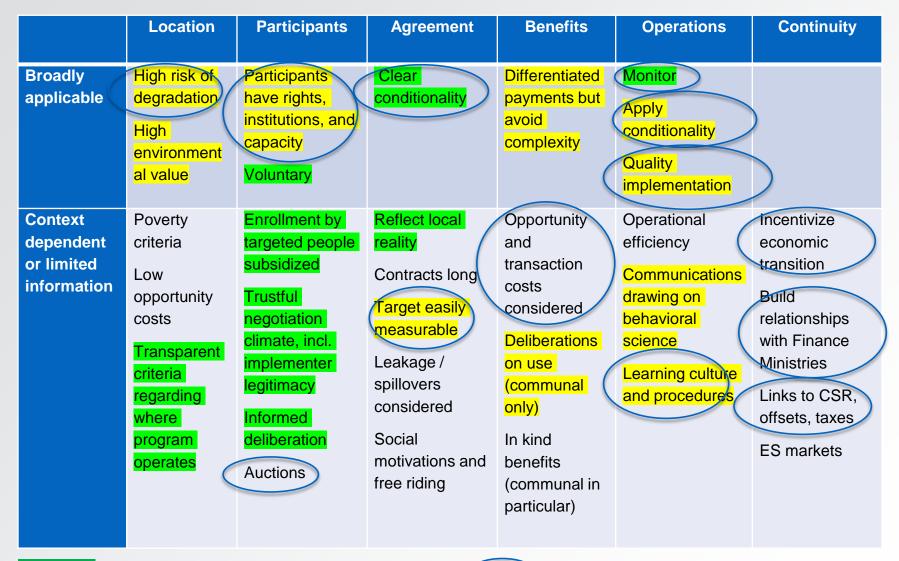
#### Important but unresolved issues

Examples:

- 1. Optimal designs of non-monetary contract characteristics in the Amazon region
- 2. Role of opportunity costs
- 3. How can conservation incentives best support poverty alleviation goals?
- 4. Should incentives be offered to increase compliance with legal obligations?

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#### Summary



Almost always considered and implemented Often considered and implemented



Expert-highlighted opportunities for improvement

#### Detail

#### Where to operate:

Characteristic	Included	Opportunity
Operate in areas with high risk of degradation	Often	Highest
Operate in areas which provide high environmental value	Often	
Prioritize regions with higher incidence of poverty	Almost never	
Prioritize regions with low opportunity cost	Almost never	
Ensure transparent criteria regarding where the program operates	Almost always	

#### How to increase program continuity?

Characteristic	Included	Opportunity
Incentivize economic transition	Rarely	Highest
Build relationships with Finance or equivalent Ministry	Almost never	Good
Establish the CA program as a vehicle for delivering on CSR,	Rarely	Good
environmental offsets, carbon offsets, and tax write-offs		
Establish the CA program as a vehicle for providing ecosystem	Rarely	
services for local, national, or global markets		

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# Recommendations

1. Continue to fund and support ASL CA programs for impact, learning, and scale

2. Use the CA design characteristics identified as a checklist

# Recommendations

3. Facilitate engagement between ASL CA programs and actors who can provide finance

 Promote exchanges among CA programs assessed and relevant ASL national projects to share, discuss, and build on effective approaches

# Recommendations

- Engage outside experts in priorities for improvement where additional technical input may be valuable
- Support participatory research on important characteristics where regional experience and existing technical studies do not provide decisive answers

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