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Overview and trends



Exchange of \$\$ for land management practices intended to provide or ensure ecosystem services

Overview and trends

Rapid growth in two decades: The annual value of PES in the world is between US\$ 36-42 billion (Market value) (Salzman et al., 2018).

- **550** active programs (Salzman et al., 2018).
 - 387 in Watersheds: US\$24.7 billion in 62 countries in 2015
 - 120 in biodiversity
 - 45 in carbon sequestration

Overview and trends

Assessing the effectiveness of PES (Salzman et al., 2018)

- Most are rarely established with a rigorous evaluation of effectiveness in mind.
 - Difficult to evaluate counter-factuals—what would have happened without a PES programme?
- Research has provided very mixed results

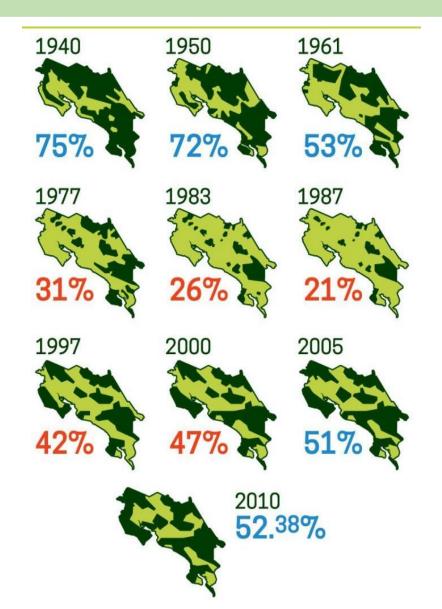
PES in Costa Rica

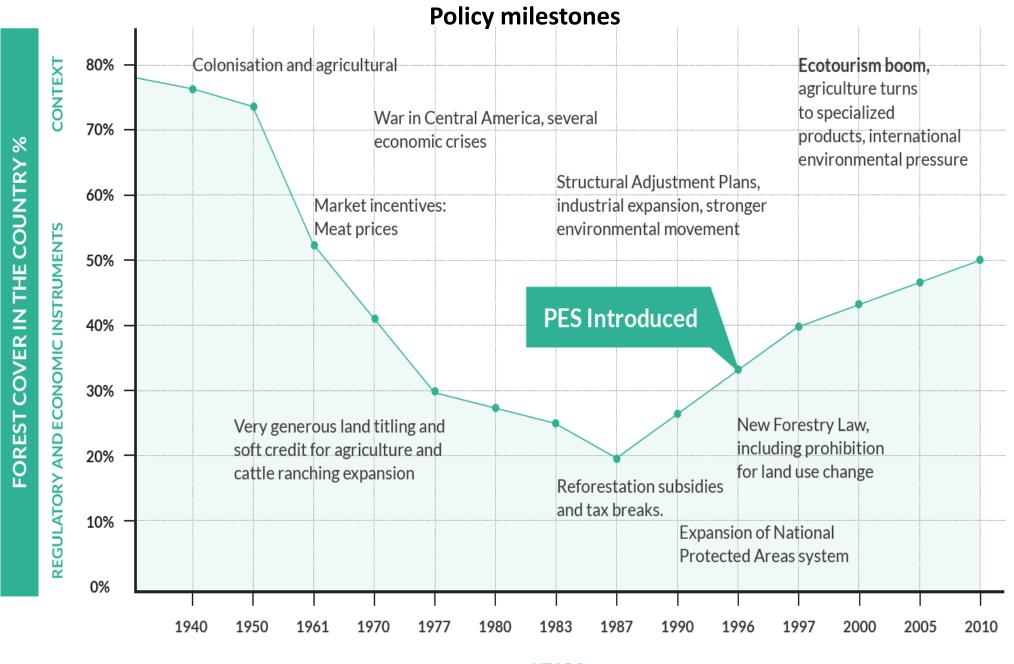
- Costa Rica has been a pioneer in implementing policies to protect ecosystem services since over 40 years.
 - o PES 1997



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PES success: a blend of enabling conditions

Costa Rican context

Land tenure security

Complementary public policies (e.g land use change prohibition, protected areas, green economy)

Legal framework (e.g Forestry Law, Biodiversity Law)

Market incentives: ecotourism

PES-National level



Political viability



Government-funded PES



Forestry Law 1996. Ecosystem services:

- Carbon secuestration
- Biodiversity
- Scenic beauty
- Water protection

Supply

Small and medium private landowners



-Legal framework

- -Administrative and financial tasks
- -Monitoring
- -Contracts and enrollment
- -Targeting criteria

Demand

National and international beneficiaries

\$

Finance structure

- 3.5% fuel tax
- Donations and loans
- Private agreements



- Defined in contracts
- Vary according to land use types



Financing

Tax on fossil fuel

Most important source of income

- US\$ 20 to US\$ 35 millions per year
- In 2017, the tax represented 92% of the program's income



Other products



But, there's one problem...

The budget accommodates only ~50% of program applicants

Evaluation matrix

	Prioritization criteria	Qualifying points
lacksquare	Forests located in areas defined within Conservation Gaps. Forests within the Indigenous Territories of the country.	85
	Forests located within the Biological Corridors officially established. Forests that protect water resources.	80
	Forests located within the Protected Areas and which have not been bought or expropriated by the state.	75
	Forests out of any of the above priorities.	55
	Forests for forest protection complying with the provisions of the above, where contracts have been signed for PES in previous years.	10 additonal points
¥	Forests on farms located in districts with Social Development Index (SDI) of less than 40% as determined by the Ministry of Planning MIDEPLAN.	10 additonal points
	Forests in any of the above priorities, with an application to enter PES in areas less than 50 hectares. These points apply only if the area of the property is equal to or less than 50 hectares.	25 additonal points
	Forest protection projects handled by organizations with existing agreement with FONAFIFO.	10 additonal points

Examples of types of payments



Forest protection

- US\$ 277.5 per Ha
- Contract duration: 5 years



Protection of the water resource

- US\$ 347 per Ha
- Contract duration: 5 years



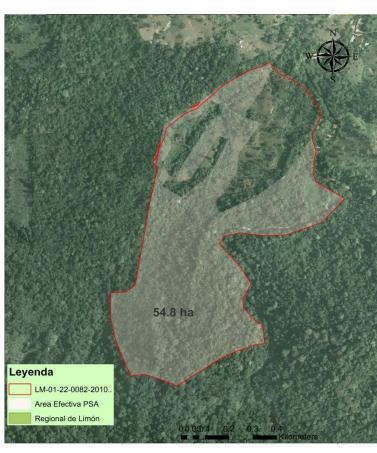
Natural regeneration

- US\$ 178 per Ha
- Contract duration: 5 years

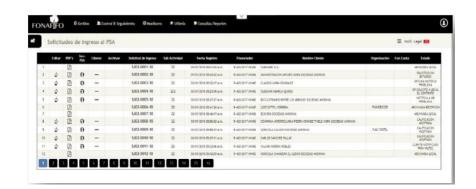
Control Mechanisms - Conditionality



Visits on field



GIS systems

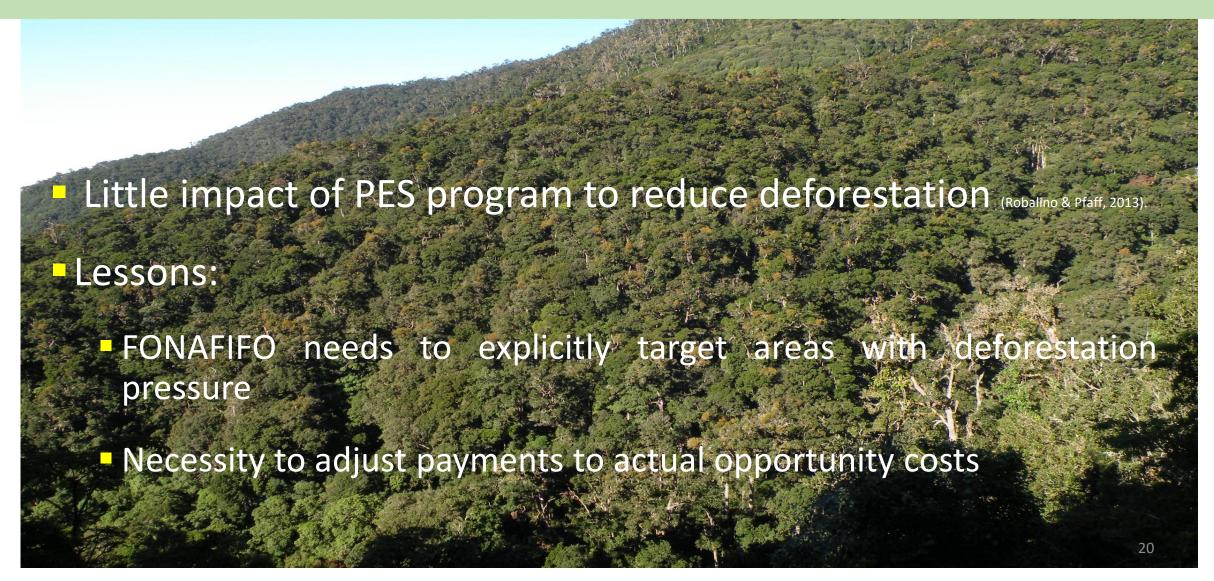


Data management

Fact sheet

- More than 1.1 million ha have been enrolled in the program to date, of which about 90% are associated with forest protection
- **7,090,357 trees** in agroforestry systems
- **17,000** PES contracts
- The enrollment numbers of smallholders, indigenous communities, and women in the program have improved over time.

Impact Evaluation: Deforestation



Impact Evaluation: Poverty & Labor

- PES program has affected poverty substantially between 2007-2009 (Alpízar, Robalino, Sandoval & Villalobos, 2014).
- How to increase the impact on poverty?
 - Change actual criteria of selection based on location of farm to a criteria based on socioeconomic characteristics of applicant





Challenges



Some challenges

Improve targeting & impact

Financial sustainability

Minimize participation barriers

Reduce transaction costs

Dependency on fuel tax

• Increase size of tax: not politically viable

 Vulnerability to macroeconomic and political changes.

• In the context of decarbonization, tax revenues would decrease substantially ... what can be done?

Increasing private participation further

Stronger scientific evidence on benefits provided

Moving from donor-based to investor-based approach

■ What is being sold? → value for the money

- Rigorous investment decision tools (e.g Rios/INVest)
- Develop standardized metrics and verification methods
- Sound economic valuation methods → Business case / CBA
- Strong institutions for credibility and low transactions costs



Take-home messages

- PES success does not emerge in vacuum
 - ✓ PES as part of a policy mix
- Adaptive approach is key
- Private sector participation:
 - ✓ Necessity but requires better science and institutions

