

# ECOSYSTEM SERVICES INITIATIVES REPORT

JULY 2020





# ECOSYSTEM SERVICES



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## 1. CONTEXT AND GOALS

Increasingly, Brazilian sugar cane agriculture has been positioning itself with excellence in environmental preservation and efficient land management. In order to achieve harmony between agricultural production and conservation, it is necessary to work for the multifunctionality of the rural landscape - the proper use of land does bring economic, environmental and social benefits.

In this context, if properly managed, the soil system is capable of providing several ecosystem services, such as water and air regulation, erosion control, carbon stock. There are several definitions in the literature on ecosystem services, but in summary, according to Farley (2012): "Ecosystem services are components of the ecosystem that can be consumed or used to produce human well-being".

The ecosystem approach is trending as part of the future of agriculture. However, the agricultural sector, and more emphatically the sugarcane sector, still does not consider the provision of ecosystem services as a mechanism for its sustainability.

This report is part of a project that aims to generate a more concrete understanding of the ecosystem approach in the context of sugarcane production in Brazil, to bring relevant players from the sector to debate and raise opportunities and challenges, and to establish a work agenda to take the issue to producers. The theoretic reference considered throughout this document was based on Embrapa, 2019.

The present document provides a map that consolidates the different types of initiatives that already approach the concept of Payment for Ecosystem Services, according to Embrapa (2019), in the different continents of the world as well as within Brazil.

With this, the partner organizations intend to give a contribution to the current knowledge about the topic and to put the relevant stakeholders together to advance the agenda within the sugarcane sector.



## 2. PARTNERS ORGANIZATIONS

This paper was a joint effort made by the following partner organizations, that dedicated internal resources and quality time to give a contribution to mapping Ecosystem Services initiatives.

### 2.1. EARTH INNOVATION INSTITUTE

As world demand for food, fiber, feed and fuel outpaces supply, increases in production are urgently needed. Increased production must be achieved while maintaining and rebuilding forests and fisheries, and slowing the release of greenhouse gases to the atmosphere. Tropical nations hold the greatest potential to produce more food for the planet. By increasing the productivity of already-cleared land and building on recent successes in slowing deforestation, we can feed more people while ending deforestation and mitigating climate change.

The Earth Innovation Institute fosters this transition to low-emission rural development – a shift to economic growth that keeps forests and fisheries intact and rewards farmers, ranchers, and fishermen for using sustainable practices.

**Website:** <https://earthinnovation.org/>



### 2.2. FORESTS, FARMS & FINANCE INITIATIVE

The Forests, Farms and Finance Initiative seeks to address the major challenges facing developing nation societies such as the destruction of tropical forests and other native ecosystems and resulting emissions of CO<sub>2</sub> and other greenhouse gases to the atmosphere, the erosion and loss of soils, the degradation and depletion of freshwater delivery systems, and the disruption and displacement of indigenous, traditional and smallholder communities that occur as agricultural and livestock production systems expand “horizontally” through forest conversion and resulting land conflicts by linking incentives for more environmentally and socially responsible agricultural commodities production with initiatives to reduce deforestation and other environmental degradation.

Each regionally tailored strategy seeks consensus on specific targets for reducing deforestation, increasing agricultural productivity and improving smallholder livelihoods in each target jurisdiction, or territory as it designs incentive systems and monitoring platforms for achieving these targets. These strategies are driven by a diverse consortium that includes non-governmental organizations, major commodity roundtables (the Round Table for Responsible Soy, the Roundtable on Sustainable Palm Oil, Bonsucro, and the Global Roundtable for Sustainable Beef), private companies and sub-national governments. Each partner in the consortium brings a unique set of skills and network to contribute to engaging farm sectors, finance institutions, traders, commodity buyers, governments, and civil society in a consensus-building process using a “bottom-up” approach.

The present report was delivered as part of the Forests, Farms & Finance Initiative lead by the Earth Innovation Institute.

**Website:** <https://earthinnovation.org/our-work/global/forests-farms-finance-initiative/>



### 2.3. BONSUCRO

Bonsucro is a global multistakeholder non-profit organisation that exists to promote sustainable sugarcane production, processing and trade around the world. Bonsucro supports a community of over 280 members in over 50 countries, from all elements of the sugarcane supply chain, including, farmers, millers, traders, buyers and support organisations.

Bonsucro's vision is a sugarcane sector with thriving, sustainable producer communities and resilient, assured supply chains. Our mission is to ensure that responsible sugarcane production creates lasting value for the people, communities, businesses, economies and eco-systems in all cane-growing origins. Bonsucro's strategy builds a platform to accelerate change for the largest agricultural commodity in the world – sugarcane.

Website: <https://www.bonsucro.com/>



### 2.4. SOLIDARIDAD NETWORK

Solidaridad is an international civil society organization with more than 50 years of experience that operates in over 40 countries with the goal of promoting the development of value chains that are socially inclusive, environmentally responsible, and profitable in the fields of agribusiness and artisanal mining. It forms partnerships and generates innovative solutions for both sectors with businesses, governments, and commerce organizations to help farmers to increase and improve their production, thus promoting the transition to agricultural production that respects the planet.

In Brazil, Solidaridad works with focus on the sustainability of eight commodity value chains - cotton, cocoa, coffee, sugar cane, yerba mate, orange, livestock, and soy - contributing to food and climate security.

Website: <https://www.solidaridadsouthamerica.org/brasil>



## 2.5. ORPLANA (ORGANIZAÇÃO DE ASSOCIAÇÕES DE PRODUTORES DE CANA DO BRASIL)

ORPLANA - Organization of Cane Producers Associations in Brazil - was founded on June 29, 1976, with the purpose of organize the class of producers and increasing their representation in Brazil and abroad.

Our Mission is to ensure a secure and profitable future for sugarcane producers seeking excellence in agricultural production and coordination of the sugar-energy chain.

With headquarters in Ribeirão Preto / SP, it currently has 32 associations of sugarcane suppliers, of which 24 are in the state of São Paulo, 1 in Mato Grosso, 1 in Mato Grosso do Sul, 3 in Minas Gerais and 3 in Goiás. ORPLANA represents approximately 11,000 suppliers of sugarcane in the entire Central-South Region of Brazil. From September of 2019, ORPLANA will have national coverage, assuming a strategic commitment to serve all Brazilian sugarcane producers.

### GOALS

We aim to support, reinforce and maintain the competitive advantages of independent sugarcane producers, maximizing their efficiency and profitability. To be a facilitator in the development of technical and strategic knowledge for the sugar-energy chain, assisting in effective decision-making.

Develop a favorable external environment for sugar cane producers through institutional marketing in the sector and the defense of their rights. Contribute to maintaining the competitiveness of the sugar-energy sector in the long term. Increase the efficiency levels of the associations of sugarcane producers that are members of ORPLANA, maintaining the unity of the class.

- Represents

Representativeness of producers along

with cooperatives, plants, research centers,

CONSECANA and other stakeholders for the sustainable development of the integrated sugarcane chain.

- Disseminate

Dissemination of knowledge among Member Associations.

- Communicates

Dialogue with public and private sectors and society at the national and international levels.

Website: <http://www.orplana.com.br/>



## 2.6. SOCICANA (ASSOCIAÇÃO DOS FORNECEDORES DE CANA DE GUARIBA)

Socicana (Association of Sugar Cane suppliers of Guariba) is an association formed by agricultural sugarcane growers in the Guariba region in the state of São Paulo - Brazil. The association was founded in 1951, it constitutes an organ representing the sugarcane producing class. Socicana is headquartered in Guariba-SP. Socicana is headquartered in Guariba-SP and its activities are concentrated within a radius of 100 kilometers from the headquarters and represents 1,220 members, an approximate production of 6.1 million tons of sugarcane and an area of 72 thousand hectares.

Socicana's vision is to be a reference in providing services to the associate, recognized as a leader in the articulation and management of initiatives that offer competitiveness to sugarcane growers. Socicana mission is to promote competitiveness and sustainable development of sugarcane growers, through services to the member, acting in defense of their rights and strengthening of associativism.

Website: <http://socicana.com.br/>



## 2.7. GEOFLORESTAS SOLUÇÕES AMBIENTAIS

Geoflorestas – Soluções Ambientais Ltda, is a company which corporate purpose is the provision of technical consulting and services specialized in environmental and geoprocessing areas. The company's goal is to provide environmental services of excellence based on GIS technology.

The company uses the latest tech for its services and we turns efforts to ensure the Sustainability and good value between our customers and the environment. In order to do so, we have a highly qualified technical team. The expertise of our staff enables customers to achieve the best environmental solutions and products tailores to their business.

We work in accordance with ethical principles and meeting the current legislation, being always aware to the efficiency and quality of our services, seeking to achieve excellence and clients satisfaction. Geoflorestas, is a young and fast-growing company. Founded in 2010, became one of the selected companies in Latin America, to be Esri partner in 2011 (Esri Partner Network - EPN Silver). The partnership is based on developing and implementing solutions and services in environmental, conservation, agribusiness and GIS.

Website: <https://geoflorestas.com.br/en/>



### 3. HOW TO READ THIS REPORT

In the following pages you will have access to details of initiatives around the world that already approach the topic of Payment for Ecosystem Services. The overall research found 76 initiatives worldwide, but only the 50 most relevant were detailed. These initiatives were categorized into 5 types and shown in the maps per region based on the country/region where it is applied as scope of work. So if there is an initiative placed at a certain country, it means that the ecosystem service provided comes from that country, regardless of where the financial resources are coming from.

The top of each map page shows the list with the names of the initiatives identified for that region, the legend and a table with the numbers of initiatives mapped versus the ones that will be further detailed at the tables displaced in the next pages. The bottom of each map page brings the definitions of the 5 types of initiatives identified throughout the work.

We want to emphasize that 100% of this report was based on desktop research and public available information accessed during the first semester of 2020 and do not necessarily represent the individual views of the partner organizations.

#### ACRONYMS

GHG - Greenhouse Gas

PSE - Payment for Ecosystem Services



In the  
world



- 1-Mantiqueira's Conservation Plan
- 2-Water Conservation Plan
- 3-Zero Carbon Project
- 4-Paulista Environmental Credit to the Private Reserves of Natural Heritage (RPPNs)
- 5-Restinga Project
- 6-Indigenous Territory
- 7-Puru's Roots
- 8-Irehi: Taking Care Of The Land
- 9-Environmental Conservation/Productive Conservation
- 10-Atlantic Forest Connection Project-Protection PES
- 11-Atlantic Forest Connection Project-PSA Multiple Use
- 12-PES Rio Doce
- 13-Sustainable Rural Development Project (PDRS) Microbasins II
- 14-PES - Preserving the Future
- 15-Brazil's Live Forest Program
- 16-Cerrado Water Consortium
- 17-Ecocredit Program
- 18-Oasis Project
- 19-Forest and Water Producers
- 20-Living Water Program

- 21-Restoration Brasil
- 22-Water Conservation Project
- 23-Forest Restoration of the Pau Brasil Ecological Corridor
- 24-Ecological Credit System
- 25-Forest Grant Program
- 26-Green Grant Program
- 27-Water Mine Project
- 28-Forest+
- 29-Ypê Forest
- 30-Amazon Fund for Forest Conservation and Climate
- 31-Green Markets and Sustainable Consumption
- 32-Jacundá REDD+
- 33-Jari Valley REDD+
- 34-Ribeirão Piripau's River Basin-Water Conservation Project
- 35-Adaptation to Climate Change through Effective Water Governance in Ecuador
- 36-Scolet'e - The growing tree (El árbol que crece)
- 37-CommuniTree Carbon Program
- 38-ArBolívia
- 39-Trees for Global Benefits (TGB)

- 40-Sofala Community Carbon
- 41-EthioTrees – Supporting Landless Farmers in the Tembien Highlands
- 42-Loru Forest Project
- 43-Drawa Rainforest Conservation Project
- 44-Babatana Rainforest Conservation Project
- 45-Channel Payments For Ecosystem Services
- 46-Woodland Carbon Code (WCC)
- 47-Flowering Stone Castle
- 48-Conservation-oriented management of grassland in the North Rhine-Westphalian Eifel
- 49-Conservation Reserve Program (CRP)
- 50-Pumlumon Project

**Legend**

- Initiative type
- Forest conservation
  - Resources management
  - Water resources management
  - Biodiversity conservation
  - Carbon credit
- Countries with initiatives  Countries

World	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	76	7	13	39	5	12
Detailed	50	3	10	34	2	1

**ECOSYSTEM SERVICES INITIATIVES - WORLD**



Earth Innovation Institute



FORESTS | FARMS | FINANCE INITIATIVE



**Solidaridad**

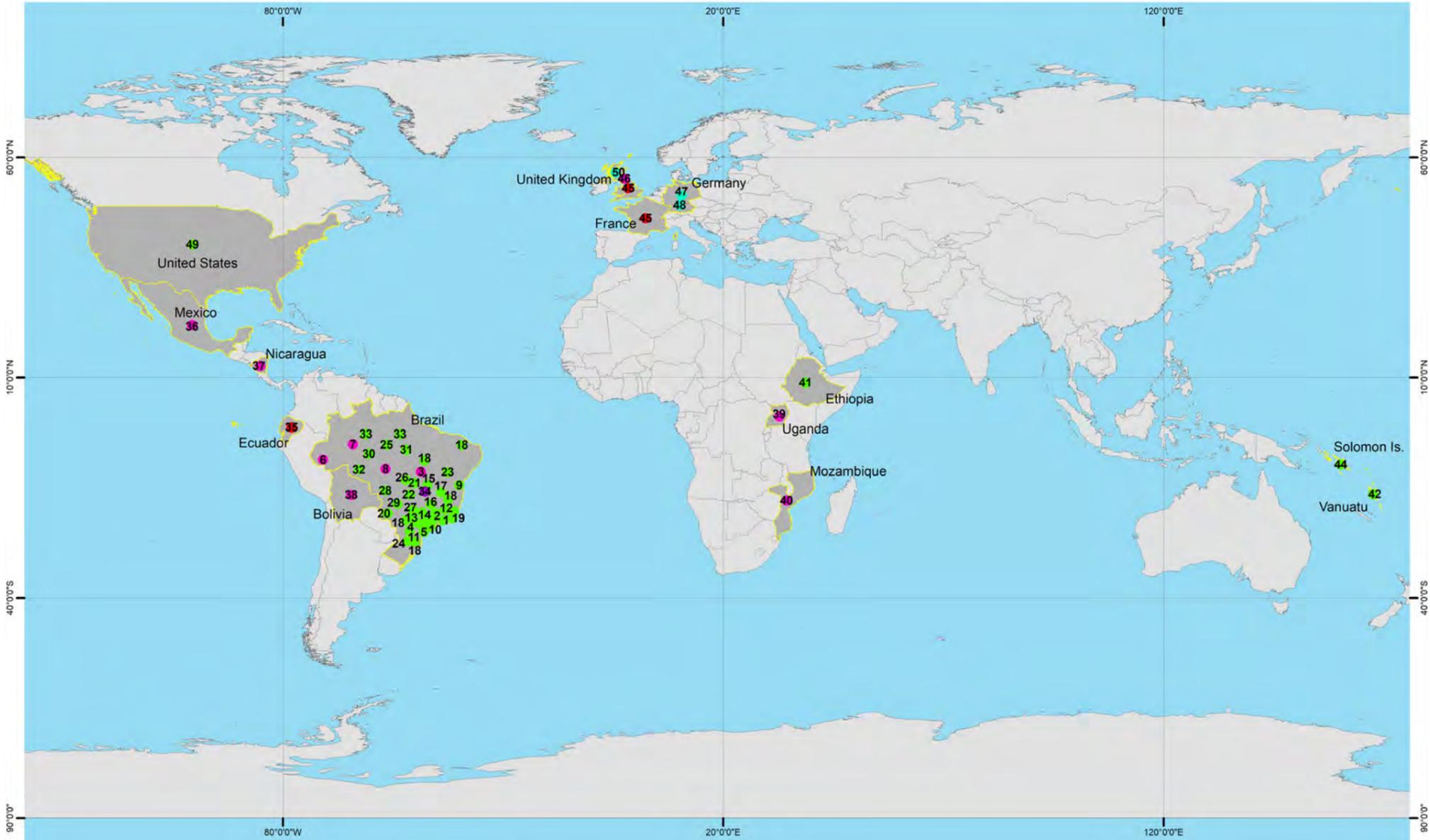


Figure 1 - Ecosystem Services Initiatives - World Map

- \* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.
- \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.
- \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

- \* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.
- \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

Coordinate System: GCS WGS 1984  
 Datum: WGS 1984  
 Unit: Degree  
 1:108.000.000

An aerial photograph of a vast, rugged landscape in Africa. The scene is dominated by a winding river that flows through a deep valley, surrounded by lush green vegetation. The river's banks are marked by reddish-brown soil. In the foreground, a prominent, steep cliff face with horizontal rock layers rises above the forest. The background features a series of flat-topped mountains and plateaus under a bright blue sky with scattered white clouds. The word "AFRICA" is superimposed in large, white, sans-serif capital letters across the center of the image.

# AFRICA

39-Trees for Global Benefits (TGB)  
 40-Sofala Community Carbon  
 41-EthioTrees – Supporting Landless Farmers in the Tembien Highlands

World	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	6	0	3	1	2	0
Detailed	3	0	2	1	0	0

**Legend**

- Initiative type
- Biodiversity conservation
  - Carbon credit
  - Forest conservation
  - Resources management
  - Water resources management
- Countries with initiatives
  - Africa
  - Countries

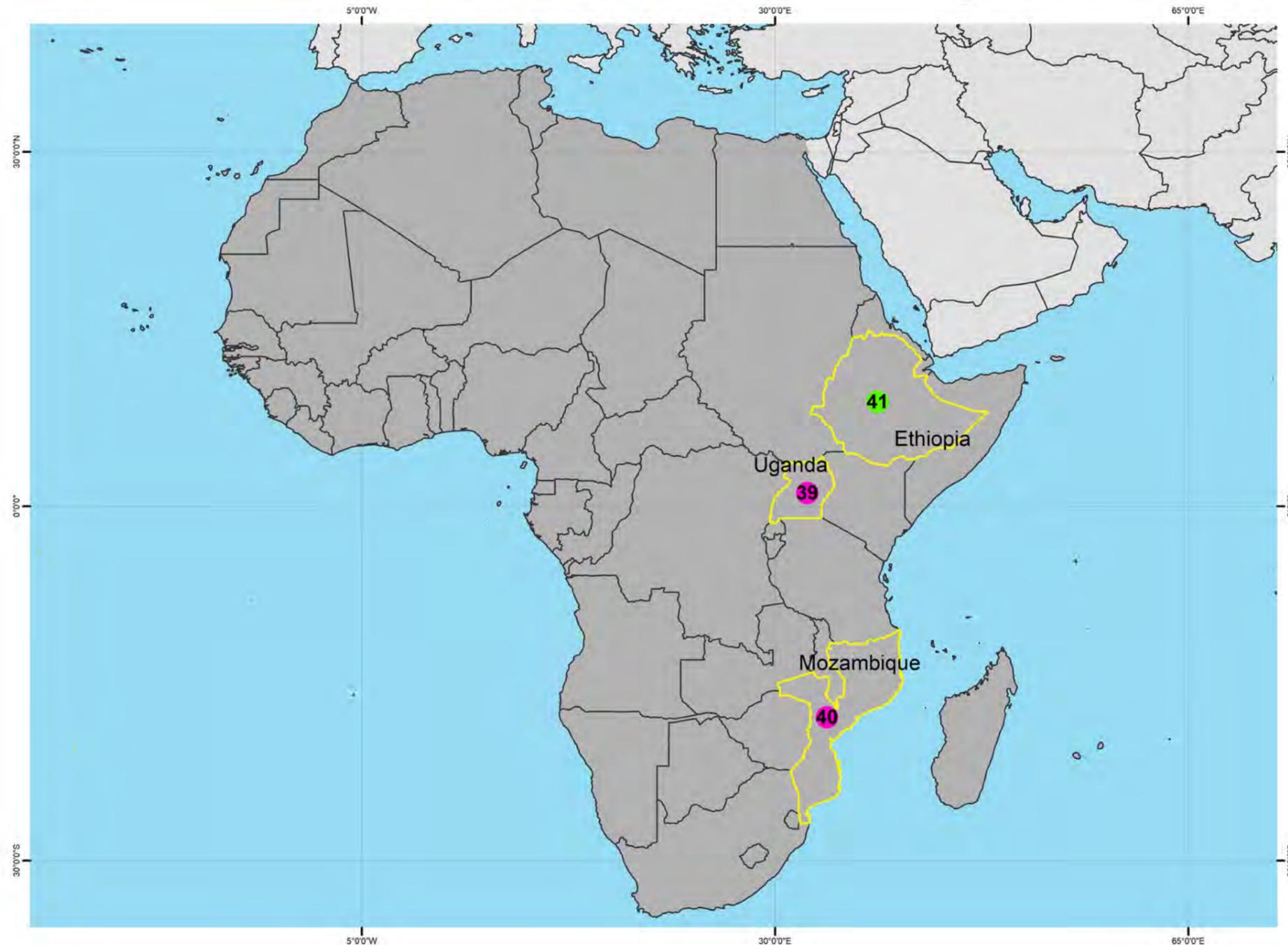


Figure 2 - Ecosystem Services Initiatives - Africa Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.  
 \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.  
 \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.  
 \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

**ECOSYSTEM SERVICES INITIATIVES - AFRICA**



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The global sugarcane platform

**Solidaridad**



ORGANIZAÇÃO DE ASSOCIAÇÕES DE PRODUTORES DE CANA DO BRASIL



ASSOCIAÇÃO DOS FORNECEDORES DE CANA DE GUARIBA - 15-03-51



Soluções Ambientais

Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unitis: Degree

1:38.000.000

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	COUNTRY	LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT - AMOUNT PER HECTARE	WEBSITE
39	ECOTRUST	Trees for Global Benefits (TGB)	The project operates as a market-based solution that reduces unsustainable exploitation of forest resources and the decline of ecosystem quality, while diversifying and increasing incomes for rural farmers and their families.	2003-2020	Active	Albertine Rift & Mt Elgon regions	Uganda	GHG Mitigation / Classic PES / Agricultural Support	Public-Private Partnership	Carbon Credit	Unspecified	The monitoring indicators form the basis of the results-based system and disbursement mechanism. Payments are made to producers according to predetermined milestones. The producers who do not meet their targets have their payments deferred until a set of required corrective actions are implemented.	The carbon benefits distributed to the communities are in a combination of cash and non-cash benefits(in-kind).The cash benefits come from the sale of carbon credits, whose price is designed to give the community at least 60% of the purchase price,while the remaining 40% is split to cover the project administration costs, certificate issuance fee and payments for third party verification(annual financial audits and five yearly project audits). The non-cash benefits come in different forms of capacity building activities and social inclusion processes made possible through co-investments obtained by the project for the participating communities.The diagram below summarises the non-cash benefits and how they link to tree-planting activities within the project's benefit-sharing model.	<a href="https://www.planvivo.org/project-network/trees-for-global-benefits-uganda/">https://www.planvivo.org/project-network/trees-for-global-benefits-uganda/</a>
40	Envirotrade Sofala Limited	Sofala Community Carbon	The project has implemented agroforestry activities as well as interventions that result in avoided deforestation. The project enables individuals and companies to effectively invest in new forests and agroforestry. By becoming trained crop farmers, local people contribute significantly to their own environments whilst securing regular income and stable sustainable food supply. The revival of agroforestry among impoverished communities is generating crops that enrich rather than exhaust fragile forest soils.	2003 - Unspecified	Active	Gorongosa and Marromeu Park	Mozambique	GHG Mitigation / Classic PES / Agricultural Support	Public-Private Partnership	Carbon Credit	Unspecified	Furthermore, the Sofala project extends farming and capacity-building to project participants, and has a strong focus on diversifying farmers' income streams. The project trains smallholders in the sustainable farming of important cash crops which most farmers then incorporate into their plantings. This not only contributes to improving food security for themselves, but also enables them to access additional income streams.	Unspecified	<a href="https://www.planvivo.org/project-network/sofala-mozambique/">https://www.planvivo.org/project-network/sofala-mozambique/</a>
41	EthioTrees	EthioTrees – Supporting Landless Farmers in the Tembien Highlands	To counter these problems, this project aims to boost community-driven woodland restoration on large and highly degraded slopes where cattle grazing is excluded. This will store carbon in the supported woodlands, both as soil organic carbon and above-ground biomass, and support ecosystem services development and valorisation through increasing groundwater availability, honey production and frankincense (oil) production for landless farmers.	2016-2020	Active	Tembien Highlands	Ethiopia	GHG Mitigation / Classic PES / Agricultural Support	Public-Private Partnership	Forest Conservation	Unspecified	Unspecified	Unspecified	<a href="https://www.planvivo.org/project-network/ethiotrees-tembien-highlands/">https://www.planvivo.org/project-network/ethiotrees-tembien-highlands/</a>

Table 1 - Detailed table of initiatives - Africa

An aerial photograph of a tropical island. The left side is dominated by a dense, lush green forest of palm trees. On the right, a white sandy beach curves along a vibrant turquoise lagoon. Several small white boats are anchored in the shallow water. A wooden pier extends from the forest into the lagoon, with a small structure at its end. The overall scene is bright and idyllic, suggesting a remote tropical destination.

# ASIA AND OCEANIA

42-Loru Forest Project  
 43-Drawa Rainforest Conservation Project  
 44-Babatana Rainforest Conservation Project

World	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	6	1	2	3	0	0
Detailed	3	0	0	3	0	0

**Legend**

- Initiative type
- Biodiversity conservation
  - Carbon credit
  - Forest conservation
  - Resources management
  - Water resources management
- Countries with initiatives:   
 Asia and Oceania:   
 Countries:

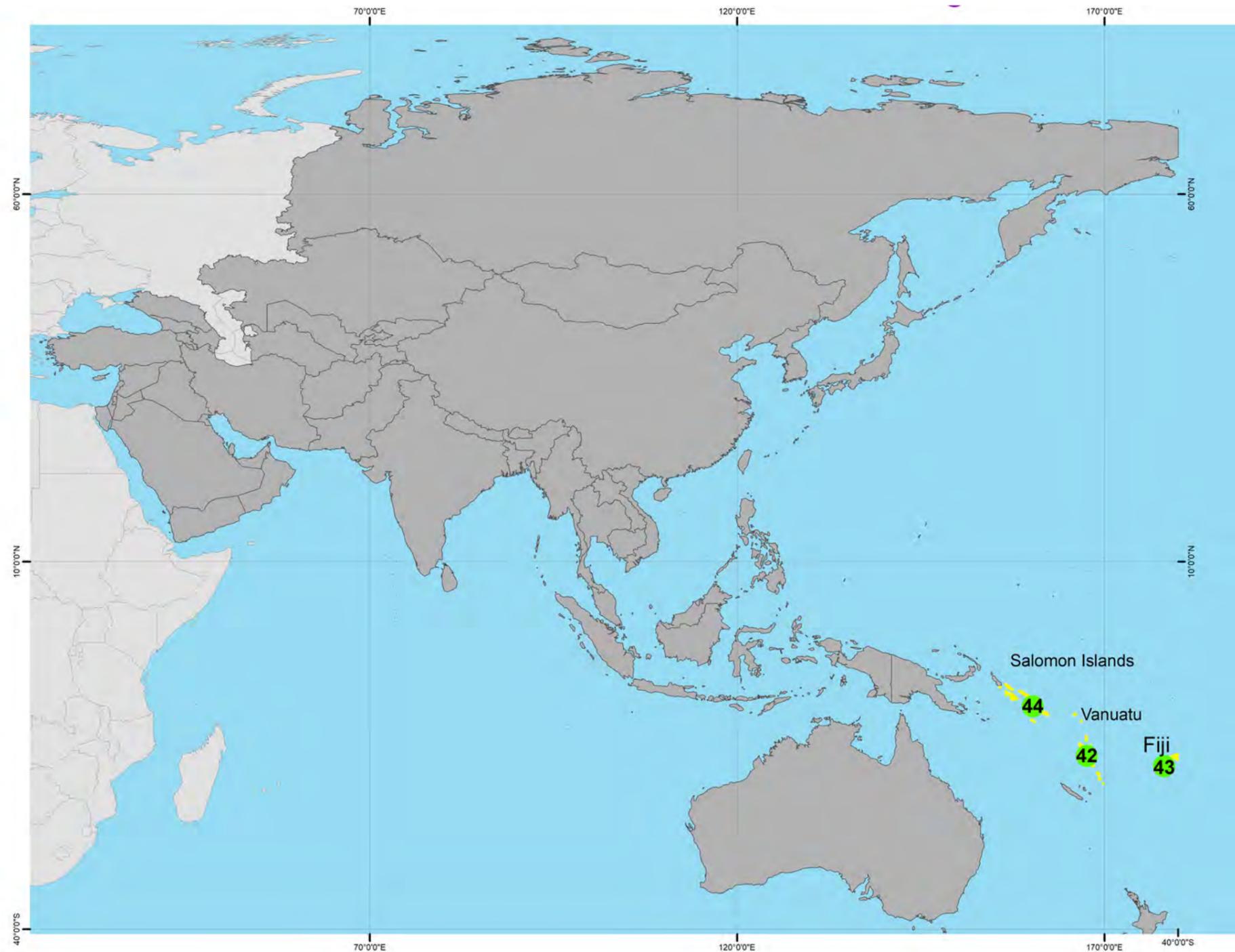


Figure 3 - Ecosystem Services Initiatives - Asia and Oceania Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.  
 \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.  
 \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.  
 \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

**ECOSYSTEM SERVICES INITIATIVES - ASIA AND OCEANIA**



Coordinate System: GCS WGS 1984  
 Datum: WGS 1984  
 Unit: Degree  
 1:60.000.000

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	COUNTRY	LINE OF BUSINESS		TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT - AMOUNT PER HECTARE	WEBSITE
42	Live & Learn Vanuatu, Nakau	Loru Forest Project	This ex-post project will generate 2,442 Plan Vivo Certificate per year, with registration and first issuance due in Q2, 2016. The project works with about fifty indigenous ni-Vanuatu landowners of the Serkar Clan, descended from Chief Serkar (1913 - 1997). In order to protect the rainforest, these landowners have given up the rights to land clearance for coconut plantations	2013-2020	Active	Espirtu Santo	Vanuatu	GHG Mitigation / Classic PES / Agricultural Support		Public-Private Partnership	Forest Conservation	Unspecified	Unspecified	Unspecified	<a href="https://www.planvivo.org/project-network/loru-forest-project/">https://www.planvivo.org/project-network/loru-forest-project/</a>
43	Live & Learn Fiji and the Nakau Programme Pty Ltd. Technical support was provided by Carbon Partnership, Ekos and WCS, with funding from the European Union.	Drawa Rainforest Conservation Project	The Drawa landowners are in the process of having the area protected by a conservation lease, on land owned by 8 Fijian clans. This project will generate 18,800 carbon credits annually. Recipient of the SPREP-SPC award for Excellence in Implementing Island Ecosystem Management Principles.	2012-2020	Active	Vanua Levu	Fiji	GHG Mitigation / Classic PES / Agricultural Support		Public-Private Partnership	Forest Conservation	Unspecified	Unspecified	Unspecified	<a href="http://www.nakau.org/drawa---fiji.html">http://www.nakau.org/drawa---fiji.html</a>
44	This project was developed by the Natural Resources Development Foundation (NRDF) and the Nakau Programme Pty Ltd. Technical support was provided by Carbon Partnership and Ekos with funding from the European Union.	Babatana Rainforest Conservation Project	The project applies an "avoided forest degradation" carbon accounting methodology - otherwise termed "improved forest management" where land use is changed from logging to long term forest protection. A forest inventory was undertaken during 2015 as part of the carbon accounting for the project.	2012-2020	Active	Sassamunga	Solomon Islands	GHG Mitigation / Classic PES / Agricultural Support		Public-Private Partnership	Forest Conservation	Unspecified	All project partners need to cover their costs, and rainforest conservation costs money. The main costs are: 1. Timber opportunity costs and conservation management costs for rainforest owners; 2. Measurement, reporting and verification costs of an internationally certified project; 3. Wholesale sales & marketing costs needed to monetize carbon offset units.	Unspecified	<a href="http://www.nakau.org/babatana---solomon-islands.html">http://www.nakau.org/babatana---solomon-islands.html</a>

Table 2 - Detailed table of initiatives - Asia and Oceania

A scenic landscape featuring a calm lake in the foreground, reflecting the surrounding environment. The lake is bordered by lush green and autumn-colored trees on the left and right. In the background, majestic mountains rise, their slopes covered in dense forests with some trees showing autumnal hues. The sky is a clear, vibrant blue with a few wispy clouds. The word "EUROPE" is overlaid in large, white, sans-serif capital letters across the middle of the image, centered over the lake and the base of the mountains.

EUROPE

- 45-Channel Payments For Ecosystem Services
- 46-Woodland Carbon Code (WCC)
- 47-Flowering Stone Castle
- 48-Conservation-oriented management of grassland in the North Rhine-Westphalian Eifel
- 50-Pumlumon Project

World	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	10	4	1	3	1	1
Detailed	5	3	1	0	1	0

**Legend**

- Initiative type
  - Biodiversity conservation
  - Carbon credit
  - Forest conservation
  - Resources Management
  - Water Resources Management
- Countries with initiatives
- Europe
- Countries

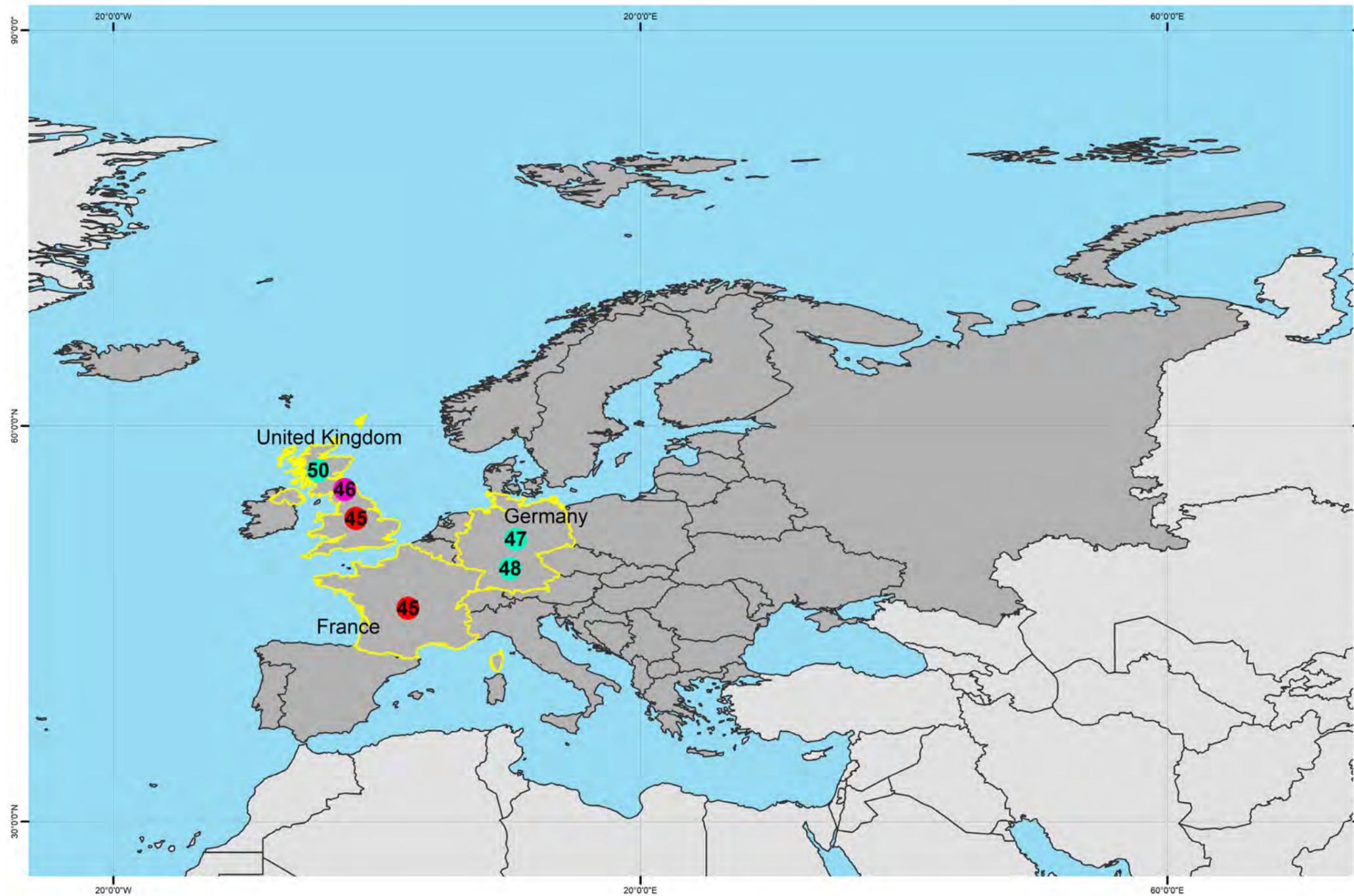


Figure 4 - Ecosystem Services Initiatives - Europe Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.  
 \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.  
 \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.  
 \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

**ECOSYSTEM SERVICES INITIATIVES - EUROPE**



Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unitis: Degree

1:35.000.000

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	COUNTRY	LINE OF BUSINESS		TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT - AMOUNT PER HECTARE	WEBSITE
45	European Regional Development Fund e outros parceiros	Channel Payments For Ecosystem Services	Launched in November 2017, the European Channel Payments for Ecosystem Services (CPES) project aims to improve water quality in rivers and lakes located in the South of England and North of France through the implementation of Payments for Ecosystem Services schemes in six case-study catchments.	2017-2020	Active	Salcombe-Kingsbrigde Estuary, Gara and Slapton & Roadford Lake catchments, Cornwall & Devon, England; South Downs chalk grassland groundwater, Hampshire & West Sussex, England; River Rother catchment, West Sussex, England; Tremblay-Omonville Catchment, Normandy, France; Springs of La Vigne, Normandy & Center, France; Lac au Duc and Yvel-Hyvet river catchment, Brittany, France	France and England (UK)	Classic PES		Public-Private Partnership	Water and Land Resources Management	Rivers	In this phase, the auction system is used to reveal the value of the most acceptable payment to farmers. Its protocol and implementation modalities contribute to the design of the PES, complemented by participatory workshops on PES governance. At the end of this phase, the assessment of the financing needs and the financial arrangement specific to the case study are determined. Implementation covers the whole process of consultation and negotiation with farmers and local actors. The implementation of the PES allows, at the end of the project, the evaluation of the effectiveness of the mechanism on the quality of the water resource, the social equity and the collective governance of the watershed. Monitoring is carried out by the sites during and after the project to ensure the continuity of the improvement of the mechanism: improvement of water quality, reduction in eutrophication, decrease in sedimentation, and financial benefits. CPES will actively contact stakeholders (OFWAT, DG MARE, DG ENVIRO, DG AGRI, French Regional Councils and National Farmers' Unions, among others) to produce a policy for framing and implementing PES as intervention models and sustainable policy to integrate into future projects. The main results will influence policy development at EU level.	Around € 4.000.000,00	<a href="https://www.cpes-interreg.eu/en/cpes-project/the-project">https://www.cpes-interreg.eu/en/cpes-project/the-project</a>
46	UK Forestry Commission and Landowners Represented By Carbon Companies, like Forest Carbon Ltd.	Woodland Carbon Code (WCC)	The Woodland Carbon Code is the British standard for voluntary carbon credits generated through afforestation projects. Business and private individuals can acquire credits to mitigate their emissions. The afforestation projects are financed through the sale of credits. In addition, they may apply for governmental grants. Specialized carbon companies like Forest Carbon Ltd act as intermediaries.	2011-2020	Active	Whole Country	UK	GHG Mitigation / Classic PES		Public-Private Partnership	Carbon Credit	Forests in general	Any private or public landowner who wishes to contribute to climate change mitigation can participate. At present, the code only covers new woodland creation but it is evolving all the time and may extend to improved forest management in the future. To meet all requirements, each project must include long-term objectives and management plans in its certification documentation. It has to meet national forestry standards and use standard methods for estimating the amount of carbon sequestered. After certification, projects are monitored on a regular basis to ensure that woodland establishment is successful, and that tree growth rates are consistent with the predictions of the project's carbon sequestration. This also alerts project managers to take action if growth is not progressing as expected. The Carbon Assessment Protocol details five different methods of measuring the volume of timber (and therefore mass of carbon) in a woodland. Projects employ it as a guide to determine which method to use for a particular woodland or situation. Additionally, estimated carbon sequestration is guaranteed through (i) UK law that protects forests very stringently and (ii) the creation of healthy project buffers as part of the methodology and the creation of a pooled buffer, meaning certified projects will all insure one another.	Payment arrangement: Rather output-based; level of payment is based on opportunity and production costs minus subsidies	<a href="https://www.woodlandcarboncode.org.uk/">https://www.woodlandcarboncode.org.uk/</a>
47	Stiftung Naturschutz Schleswig-Holstein and the Local Farmers' Association	Flowering Stone Castle	The aim of the project is to examine two PES approaches, both of which have been proven elsewhere, in terms of their suitability for the conservation of species-rich grasslands, and also to make these approaches more widely known in Schleswig-Holstein. The first is the output-based payment mechanism, the second is the use of tender procedures. The approach of paying farmers based on outputs has already been practiced for a number of years in certain German federal states, such as Baden-Württemberg and Lower Saxony, under the governmental agricultural programs.	2007-2014	Ended	Schleswig-Holstein Region	Germany	Agricultural Support / Classic PES		Public-Private Partnership	Biodiversity Conservation	Grasslands close to agricultural areas	An annually updated leaflet carries information regarding the indicator species, the method of observation and the tending process. The plants are typical for species-rich grassland sites, usually with a moist or wet consistency, and are easy to recognize. Farmers can therefore clearly gauge the extent to which their fields are eligible. The tendering period runs until mid-April. After the bids have been received and evaluated by the Stiftung Naturschutz, commissioned biologists survey the area offered together with the bidding farmer. The transect method is used, in which three defined sections of the area are systematically analyzed to count the species present. This yearly inspection determines whether the field on offer is eligible or not. Once all the areas have been examined, a bid's acceptance is based on the level of the respective field's eligibility and its proposed price. The lowest bids are considered first, followed by the next highest until the total annual budget has been allocated. There are no contracts, no management requirements and, accordingly, no sanctions.	€ 10,000 per year in remuneration fees + € 1,500 to € 2,500 for expert reports	<a href="https://www.stiftungsland.de/">https://www.stiftungsland.de/</a>
48	Biological Stations in Euskirchen, Düren and Aachen in cooperation with the Nordrhein-Westfalen-Stiftung Naturschutz, Heimat- und Kultur-pflege (NRW-Stiftung), the district landscape agencies, the Chamber of Agriculture, the Landesamt für Natur- Umwelt- und Verbraucherschutz (LANUV NRW) and the Agricultural Faculty of the University of Bonn	Conservation-oriented management of grassland in the North Rhine-Westphalian Eifel	In the district of Euskirchen in the Eifel region of North Rhine-Westphalia, geobotanist Professor Wolfgang Schumacher recognized in the mid-1970s that biological and flower diversity can only be maintained on cultural landscapes through extensive management by farmers. He initially attempted to combine agricultural use with biodiversity conservation on small areas of 10, 20 or sometimes 50 hectares of land. The regional government of North Rhine-Westphalia financed a pilot project from 1985 to 1987 during which time the concept was transferred to larger plots of land. Schumacher and his colleagues from the Landesanstalt für Ökologie and the Chamber of Agriculture wanted, in particular, to explore whether and to what extent farmers can maintain the habitat of ecologically valuable and protected areas, and what costs arise in doing so. A total of 40 farmers on 200 hectares of land consented to take part in this first nationwide project for contractual nature conservation. This figure was to double in the following two years. Participants committed themselves to manage fields, pastureland, alkaline grassland and heathland according to conservation criteria and to maintaining and/or restoring species diversity. In return for this work, they received a fee. The specific challenge was to define the necessary work and requirements in such a way that it would be a success from the nature conservation point of view. At the same time, the work was also to be financially rewarding for the farmers. In addition, it was important to the initiators that the general public be made aware of the concept and its success through good publicity.	1988 - 2020	Active Unspecified	The districts of Euskirchen, Düren and Aachen in the Eifel region of Germany (currently approximately 5,000 ha of promoted land)	Germany	Agricultural Support / Classic PES		Public-Private Partnership	Biodiversity Conservation	Grasslands close to agricultural areas	Input-based, level of payment is based on opportunity and production costs, plus in many cases a reduced lease payment for the area	Budget of €1.5 million/year	<a href="http://www.biostationeuskirchen.de/">www.biostationeuskirchen.de / www.biostation-dueren.de / www.nrw-stiftung.de</a>
50	Montgomery Shire Wildlife Trust / Órgãos Públicos	Pumlumon Project	The Pumlumon is a massif located in central Wales. Like most of the uplands across Wales, ecological conditions in the Pumlumon area have deteriorated after decades of intensive land use activities. Sheep farming, being the main agricultural activity in Wales, has partly contributed to this situation. The results are widespread loss of heather moorland and bog along with dwindling numbers of species, such as red grouse and hen harrier. Bog draining and logging not only resulted in the disappearance of wildlife and supporting habitats, but also in soil quality deterioration and erosion that brought about an increased risk in flash flooding across the area. Uplands drainage dries out the peat soils, causing the release of locked carbon into the atmosphere and the soil erosion affects the water quality. This is a major concern, since the Pumlumon area is the largest watershed in Wales and the source of five rivers supplying water to four million people. At the same time, Wales' sheep farms are struggling with falling incomes, rising fuel prices and declining subsidies from the European Union.	2007-2020	Active	Pumlumon Region	Wales (UK)	Agricultural Support / Classic PES		Public-Private Partnership	Biodiversity Conservation	Forests close to agricultural areas	In the first five years following its start, the project was successfully piloted with 13 farmers on a total area of 500 hectares of land. The average cost for implementing the measures and paying the farmers has been £ 265 per hectare per year. Hydrological monitoring showed that in one area the ditch blocking had raised the water table by 5 cm. Red grouse levels at this site were the highest recorded in Wales in 2011. Now, companies, organizations and private individuals are invited to help WRT restore the remaining project area over the next ten years.	Input-based; level of payment is based on the payments of government agri-environmental programs and total available budget (Around £265/year)	<a href="https://www.montwt.co.uk/projects/pumlumon-project">https://www.montwt.co.uk/projects/pumlumon-project</a>

Table 3 - Detailed table of initiatives - Europe

An aerial photograph of a tropical coastline. In the foreground, a large, dark rock formation with a natural archway sits on the edge of the sea. The water is a vibrant turquoise color. A sandy beach curves along the coast, bordered by lush green vegetation. In the background, rolling hills and mountains are visible under a sky with scattered white clouds. The word "AMERICA" is overlaid in large, white, sans-serif capital letters across the center of the image.

AMERICA

- 1-Mantiqueira's Conservation Plan
- 2-Water Conservation Plan
- 3-Zero Carbon Project
- 4-Paulista Environmental Credit to the Private Reserves of Natural Heritage (RPPNs)
- 5-Restinga Project
- 6-Indigenous Territory
- 7-Puru's Roots
- 8-Irehi: Taking Care Of The Land
- 9-Environmental Conservation/Productive Conservation
- 10-Atlantic Forest Connection Project-Protection PES
- 11-Atlantic Forest Connection Project-PSA Multiple Use
- 12-PES Rio Doce
- 13-Sustainable Rural Development Project (PDRS) Microbasins II

- 14-PES - Preserving the Future
- 15-Brasil's Live Forest Program
- 16-Cerrado Water Consortium
- 17-Ecocredit Program
- 18-Oasis Project
- 19-Forest and Water Producers
- 20-Living Water Program
- 21-Restoration Brasil
- 22-Water Conservation Project
- 23-Forest Restoration of the Pau Brasil Ecological Corridor
- 24-Ecological Credit System
- 25-Forest Grant Program
- 26-Green Grant Program

- 27-Water Mine Project
- 28-Forest+
- 29-Ypê Forest
- 30-Amazon Fund for Forest Conservation and Climate
- 31-Green Markets and Sustainable Consumption
- 32-Jacundá REDD+
- 33-Jari Valley REDD+
- 34-Ribeirão Piripau's River Basin-Water Conservation Project
- 35-Adaptation to Climate Change through Effective Water Governance in Ecuador
- 36-Scolet'e - The growing tree (El árbol que crece)
- 37-CommuniTree Carbon Program
- 38-ArBolívia
- 49-Conservation Reserve Program (CRP)

**Legend**

- Initiative type
  - Biodiversity conservation
  - Carbon credit
  - Forest conservation
  - Resources management
  - Water resources management
- Countries with initiatives
- America
- Countries

America	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	54	2	7	32	2	11
Detailed	39	0	7	30	1	1

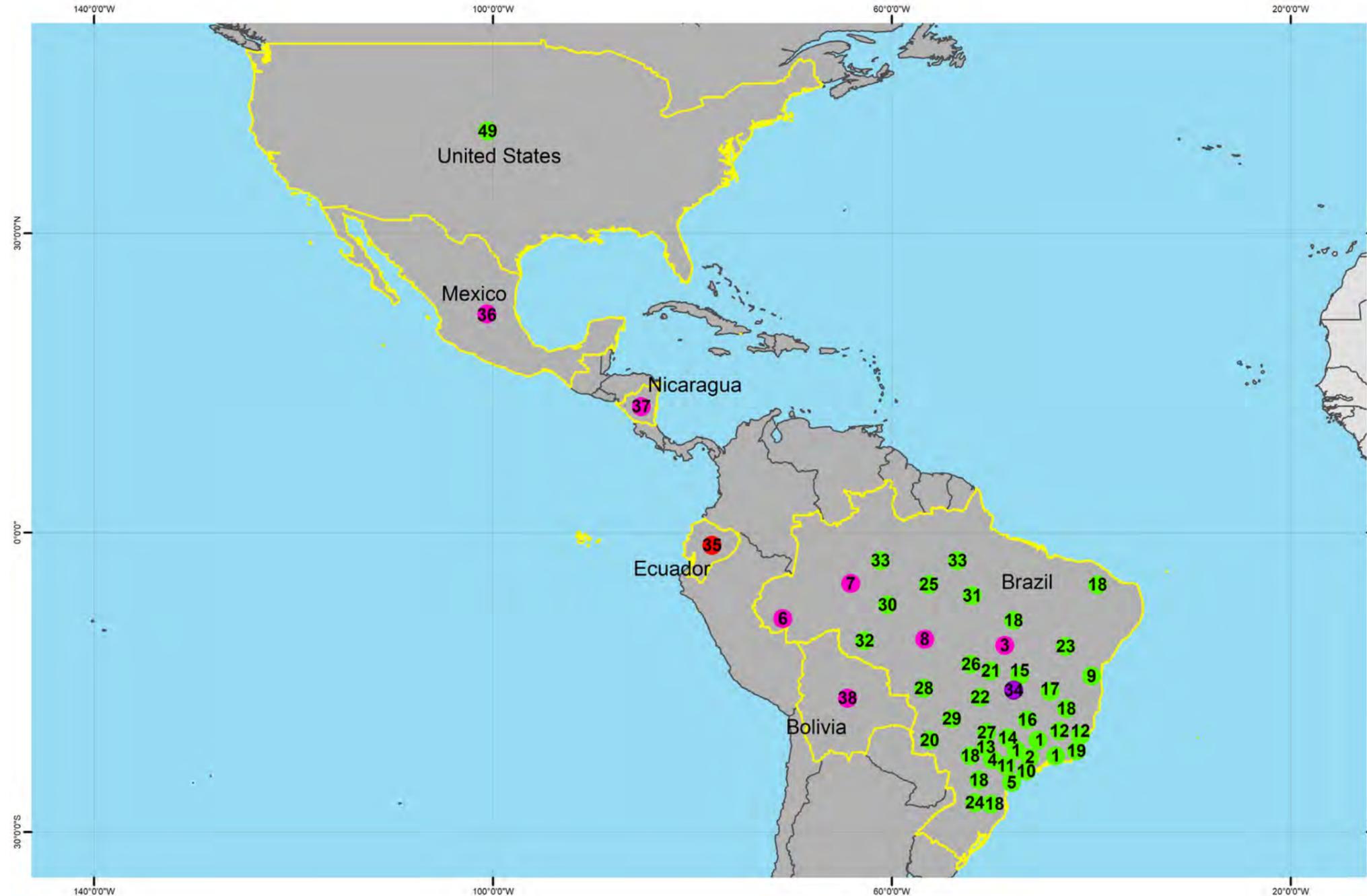


Figure 5 - Ecosystem Services Initiatives - America Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.  
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 \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.  
 \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

**ECOSYSTEM SERVICES INITIATIVES - AMERICA**



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ORGANIZAÇÃO DE ASSOCIAÇÕES DE PRODUTORES DE CANA DO BRASIL



ASSOCIAÇÃO DOS FORNECEDORES DE CANA DE GLAUBIA - 15402-51



Soluções Ambientais

Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unitis: Degree

1:46.696.787

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	COUNTRY		LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT-AMOUNT PER HECTARE	WEBSITE
35	UNDP (United Nations Development Programme) - Climate Change Adaptation	Adaptation to Climate Change through Effective Water Governance in Ecuador	The country programme of UN agencies in Ecuador is articulated around three UNDAF objectives: (i) poverty reduction through improved access to basic social services and employment; (ii) democratic governance and transparency through strengthening of government institutions and decentralization process; and (iii) sustainable environment through equitable access to natural resources.	2009 - Unspecified	Unspecified	Los Rios, Manabi, Loja e Azuay	Ecuador		Classic PES	Public-Private Partnership	Water Resources Management	Unspecified	Unspecified	USD(\$) 3.000.000 invested by UNDP + USD(\$) 13 million in government and local partners partnerships.	
36	Ambio S.C. de R.L. Collective	Scolet' te - The growing tree (El árbol que crece)	Plan Vivo was originally formulated in 1996 –it was the culmination of a research project initiated in 1994 with funding from the UK Department for International Development (DFID). The research led to the development of a pilot project in the Chiapas region of southern Mexico which became the Scolet TéPlan Vivo project. The project provided valuable insights into how to engage successfully with small-scale land owners and communities and test project principles and ideas in practice. It facilitated the development of rigorous and conservative carbon accounting methodologies, management regimes for different land usesystems, technical monitoring systems, administrative systems and procedures, and a robust certification process.	1996 - 2020	Active	Chiapas	Mexico		GHG Mitigation / Classic PES / Agricultural Support	Public-Private Partnership	Carbon Credit	Unspecified	All carbon payments to producers are linked to a monitoring regime and are made on a staged basis provided agreed performance targets are met	Unspecified	<a href="https://www.planvivo.org/project-network/scolete-mexico/">https://www.planvivo.org/project-network/scolete-mexico/</a>
37	Taking Root	CommuniTree Carbon Program	This is achieved by encouraging smallholder farming families to reforest the under-utilized parts of their farms in exchange for direct payments over time as the trees sequester carbon from the atmosphere. This is achieved by encouraging smallholder farming families to reforest the under-utilized parts of their farms in exchange for direct payments over time as the trees sequester carbon from the atmosphere.	2010-2020	Active	Esteli, Madriz & Nueva Segovia	Nicaragua		GHG Mitigation / Classic PES / Agricultural Support	Public-Private Partnership	Carbon Credit	Unspecified	Participants receive direct payments for ecosystem services (PES) over a 10- year period, which amount to 60% of the carbon credit sale price. As the densely planted trees start to crowd each other out, they are selectively harvested to allow the plantation as a whole to continue to grow, thus optimising long-run carbon sequestration while providing sustainably produced merchantable timber.	Unspecified	<a href="https://www.planvivo.org/project-network/communitree-nicaragua/">https://www.planvivo.org/project-network/communitree-nicaragua/</a>
38	SICIREC Bolivia Ltd	ArBolivia	The ArBolivia project is being implemented in the Cochabamba tropics, Santa Cruz (Ichilo Province), Northern La Paz and Western Beni. The project includes around 900 smallholders, belonging to around 165 different community groups. Plan Vivo certificates have so far been issued on behalf of 195 families.	2007-2020	Active	Cochabamba	Bolivia		GHG Mitigation / Classic PES / Agricultural Support	Public-Private Partnership	Carbon Credit	Amazon Forest	The lack of capital to invest in more efficient and sustainable agricultural practices has traditionally forced many smallholders to employ slash and burn techniques, which continue to threaten the western fringes of the Amazon. With the help of investment capital provided mainly by the UK not-for-profit sector, The Cochabamba Project is reforesting affected areas together with communities, providing households with the prospect of substantial, ongoing, additional revenues.	Unspecified	<a href="https://www.planvivo.org/project-network/arbolyvia-bolivia/">https://www.planvivo.org/project-network/arbolyvia-bolivia/</a>
49	United States Department Of Agriculture (USDA)	Conservation Reserve Program (CRP)	CRP is a federally-funded voluntary program that contracts with agricultural producers so that environmentally sensitive agricultural land is not farmed or ranched, but instead devoted to conservation benefits. CRP participants establish long-term, resource-conserving plant species, such as approved grasses or trees (known as "covers") to control soil erosion, improve water quality and develop wildlife habitat. In return, FSA provides participants with rental payments and cost-share assistance. Contract duration is between 10 and 15 years. Accepted contracts for the 54th CRP enrollment period will become effective Oct. 1, 2020	2018-2020	Active	Montana, between East Helena and Lake Helena	USA		Agricultural Support / Classic PES	Public Initiative	Forest Conservation	Forests close to agricultural areas	FSA provides those applicants who are selected for CRP general enrollment with annual rental payments and cost-share assistance. • Rental Payments: In return for establishing long-term, resource-conserving covers, FSA provides rental payments to participants. FSA bases rental rates on the relative productivity of the soils within each county and the average dryland cash rent subject to a statutory 85 percent proration. County office staff working with the producer will calculate the maximum CRP rental rate for each offer prior to enrollment. Producers may offer land below the rate to increase the likelihood that their offer will be accepted. • Cost-Share Assistance: FSA provides cost-share assistance to participants who establish approved cover on eligible cropland. The cost-share assistance cannot exceed 50 percent of the participant's costs to establish approved practices.	Unspecified	<a href="https://www.fsa.usda.gov/programs-and-services/conservation-programs/conservation-reserve-program/index">https://www.fsa.usda.gov/programs-and-services/conservation-programs/conservation-reserve-program/index</a>

Table 4 - Detailed table of initiatives - America without Brazil

An aerial photograph of a vast mangrove forest in Brazil. A winding river flows through the dense green vegetation. A single power line tower stands prominently in the middle of the forest. The background shows rolling hills and mountains under a clear sky.

**BRAZIL**

# ECOSYSTEM SERVICES INITIATIVES - BRAZIL



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Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unitis: Degree

1:20.000.000

## Legend

Initiative type

- Biodiversity conservation
- Carbon credit
- Forest conservation
- Resources management
- Water resources management
- Brazil
- Countries

- 3-Zero Carbon Project
- 15-Brazil's Live Forest Program
- 21-Restoration Brasil
- 22-Water Conservation Project
- 26-Green Grant Program
- 28-Forest+
- 29-Ypê Forest
- 30-Amazon Fund for Forest Conservation and Climate
- 31-Green Markets and Sustainable Consumption

Brazil	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	9	0	1	8	0	0
Detailed	9	0	1	8	0	0



Figure 6 - Ecosystem Services Initiatives - Brazil Map - Initiatives applicable to more than one geographic region within the country

- \* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.
- \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.
- \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such

- as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.
- \* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.
- \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	COUNTRY	LINE OF BUSINESS		TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT-AMOUNT PER HECTARE	WEBSITE
3	Ipiranga Petroleum Products S.A	Zero Carbon Project	All of the company's actions related to carbon management, ranging from the definition of the emission forces to the GHG emissions neutralization offers.	2011	Unspecified	Whole Country	Brazil	GHG Mitigation		Private Enterprise	Carbon Credit	Unspecified	Unspecified	Unspecified	<a href="https://portal.ipiranga/wps/portal/ipiranga/aempresa/sustentabilidade/carbonozero">https://portal.ipiranga/wps/portal/ipiranga/aempresa/sustentabilidade/carbonozero</a>
15	BASF	Brasil's Live Forest Program	The Forest Credit authenticates the holder or institution as a promoter of an ample and structured system of rural sustainable and productive activities, with the insertion, preparation and commitment to the communities established there, whose members are direct beneficiaries of the modern processes implemented.	1984	Active	Whole Country	Brazil	Agricultural Support		Public-Private Partnership	Forest Conservation	All Brazilian Biomes	The Forest Carbon Credits are bonds created through the certification of investment projects on Forest Protection and food and energy production, in rural areas that are integrated to the Brasil Mata Viva Program. Rural land owners that adhere to the Brasil Mata Viva Program have their areas registered and mapped, measuring their Natural Patrimony - based on the inventory of forest carbon stocks, biodiversity, water resources, opportunity cost of the land, among many other factors. The rural owners subscribe voluntarily to the Brasil Mata Viva Program and pledge to uphold the actions related to the sustainable local rural development and social aspects investments. This commitment is registered and monitored, having to adhere to the requirements laid down in the Productive Activity and Environmental Adequation Plan (PAPA). The Land Use Project presented in PAPA credits the rural activity within the Protected Native Vegetation Areas and contains the Rural Land Environmental Patrimony inventory, measured by per cubic meter of Native Wood from the forests of the farm areas and that amounts to stocked Carbon. To transform it in environmental patrimony, an inventory of native wood in the area is done, mapping the water resources, quantifying the biomass and land carbon stocks, meeting the whole Sustainability Credit cycle. The UCS certificate is emitted after the verification, validation, certification and registry of third party institutions.	Carbon Credits	<a href="http://brasilmataviva.com.br/programa-bmv#programabmv">http://brasilmataviva.com.br/programa-bmv#programabmv</a>
21	The Nature Conservancy	Restoration Brasil	Restaura Brasil is a TNC campaign to mobilize people and companies to one collective movement to restore 1 billion trees in Brazil until 2030 and to contribute to the Brazilian government to reach their own mitigation goals set by the Paris Accords.	Until 2030	Active	Whole Country	Brazil	GHG Mitigation/ Classic PES		NGO	Forest Conservation	All Brazilian Biomes	Unspecified	Unspecified	<a href="https://www.tnc.org.br/o-que-fazemos/nossas-iniciativas/restaura-brasil/">https://www.tnc.org.br/o-que-fazemos/nossas-iniciativas/restaura-brasil/</a>
22	National Waters Agency (ANA)	Water Conservation Project	The Water Conservation Project (PPA) is conceived through the execution of local PES distributed throughout the country. These projects are led by institutions that, in partnership with ANA, provide technical and financial resources to the environmental revitalization of the river basins of strategic importance to the regions that they're inserted in.	Unspecified	Active Unspecified	Whole Country	Brazil	Agricultural Support / Classic PES		Public Initiative	Forest Conservation	All Brazilian Biomes	Each program has its own unique characteristics from local legislation and associated companies.	Varied	<a href="https://www.ana.gov.br/programas-e-projetos/programa-produtor-de-agua">https://www.ana.gov.br/programas-e-projetos/programa-produtor-de-agua</a>
26	Ministry of the Environment (MMA)	Green Grant Program	The program aims to support families within extreme poverty by encouraging nature protection practices.	2012-2016	Active - Unspecified	Whole Country	Brazil	Classic PES		Public-Private Partnership	Forest Conservation	Caatinga (Brazilian Dry Forest)	How to be accepted into the program? The person needs to be registered in the "Cadastro Único para Programas Sociais" (CadÚnico), also to be within the income profile of monthly R\$ 85/person and also to be registered in the Bolsa Familia Program.	The program grants R\$ 300, every three months, to families that are beneficiaries in environmental conservation priority areas	<a href="https://www.mma.gov.br/biomas/caatinga/iniciativas-de-uso-sustent%C3%A1vel/itemlist/category/74-bolsa-verde.html">https://www.mma.gov.br/biomas/caatinga/iniciativas-de-uso-sustent%C3%A1vel/itemlist/category/74-bolsa-verde.html</a>
28	UNDP/ Green Climate Fund/REDD+ Project	Forest+	The Floresta+ is a new and innovative pilot program that aims to provide incentives for environmental services (IES) in the Legal Amazon region, in accordance with Brazil's Forest Code, the ENREDD+ and Brazil's NDC.	2015-2025	Active	Whole Country	Brazil	GHG Mitigation / Classic PES / Agricultural Support		International Fund	Forest Conservation	All Brazilian Biomes	Unspecified	Around USD(\$) 96.500.000,00	<a href="https://www.adaptation-undp.org/projects/brazil-redd-results-based-payments-phase-3">https://www.adaptation-undp.org/projects/brazil-redd-results-based-payments-phase-3</a>
29	Ypê	Ypê Forest	Ypê, in partnership with the SOS Mata Atlântica Foundation, has planted 850,000 trees since 2007. In this year, it has expanded the Ypê Forests Project by adding 150,000 seedlings of Atlantic Forest native seedling species in PPA (Permanent Protection Areas) and LR (Legal Reserve), which will be finished by the end of 2020. The project is part of the larger program, Florestas do Futuro ("Forests Of The Future"), from SOS Mata Atlântica, and one of its main goals is to contribute to the biodiversity conservancy and protection of hydric resources, as well as supporting the communities involved.	2007-2020	Active	Many States	Brazil	Classic PES		Private Enterprise	Forest Conservation	Atlantic Forest	This branch of the Florestas do Futuro Program from SOS Mata Atlantica NGO is enabled by corporate partnerships and various segments of society.	Unspecified	<a href="https://www.ype.ind.br/projetos/meio-ambiente/florestas-ype">https://www.ype.ind.br/projetos/meio-ambiente/florestas-ype</a>
30	Society for International Cooperation (GIZ)	Amazon Fund for Forest Conservation and Climate	Brazil's national climate change policy aims to completely eradicate deforestation in the Amazon region and reduce national CO2 emissions by 43 per cent by 2030. Regional measures of the Action Plan for the Prevention and Control of Deforestation in the Legal Amazon (PPCDAM) have contributed to the reduction in the annual deforestation rate from 27,772 km² in 2004 to 7,536 km² in 2018	2010-2021	Active	Amazon Forest Region	Brazil	Classic PES		International Fund	Forest Conservation	Amazon Forest	Unspecified	Around USD(\$) 1.29 bi	<a href="https://www.giz.de/en/worldwide/12550.html">https://www.giz.de/en/worldwide/12550.html</a>
31	Society for International Cooperation (GIZ)	Green Markets and Sustainable Consumption	Smallholders and traditional population groups have improved market access for sustainably produced products from the Amazon region. This encourages them to conserve and use the forest instead of clearing it and transforming it into arable and pastureland.	2016-2020	Active Unspecified	Amazon Forest Region	Brazil	Classic PES		International Fund	Forest Conservation	Amazon Forest	Internal Management of Comercial Associations and Groups - Providing Training and Support	Unspecified	<a href="https://www.giz.de/en/worldwide/70390.html">https://www.giz.de/en/worldwide/70390.html</a>

Table 5 - Detailed table of initiatives - Brazil (initiatives that apply to more than one geographic region within Brazil)

- 1-Mantiqueira's Conservation Plan
- 2-Water Conservation Plan
- 4-Paulista Environmental Credit to the Private Reserves of Natural Heritage (RPPNs)
- 5-Restinga Project
- 6-Indigenous Territory
- 7-Puru's Roots
- 8-Irehi: Taking Care Of The Land
- 9-Environmental Conservation/Productive Conservation
- 10-Atlantic Forest Connection Project-Protection PES
- 11-Atlantic Forest Connection Project-PSA Multiple Use
- 12-PES Rio Doce

- 13-Sustainable Rural Development Project (PDRS) Microbasins II
- 14-PES - Preserving the Future
- 16-Cerrado Water Consortium
- 17-Ecocredit Program
- 18-Oasis Project
- 19-Forest and Water Producers
- 20-Living Water Program
- 23-Forest Restoration of the Pau Brasil Ecological Corridor
- 24-Ecological Credit System
- 25-Forest Grant Program

- 27-Water Mine Project
- 32-Jacundá REDD+
- 33-Jari Valley REDD+
- 34-Ribeirão Piripau's River Basin-Water Conservation Project

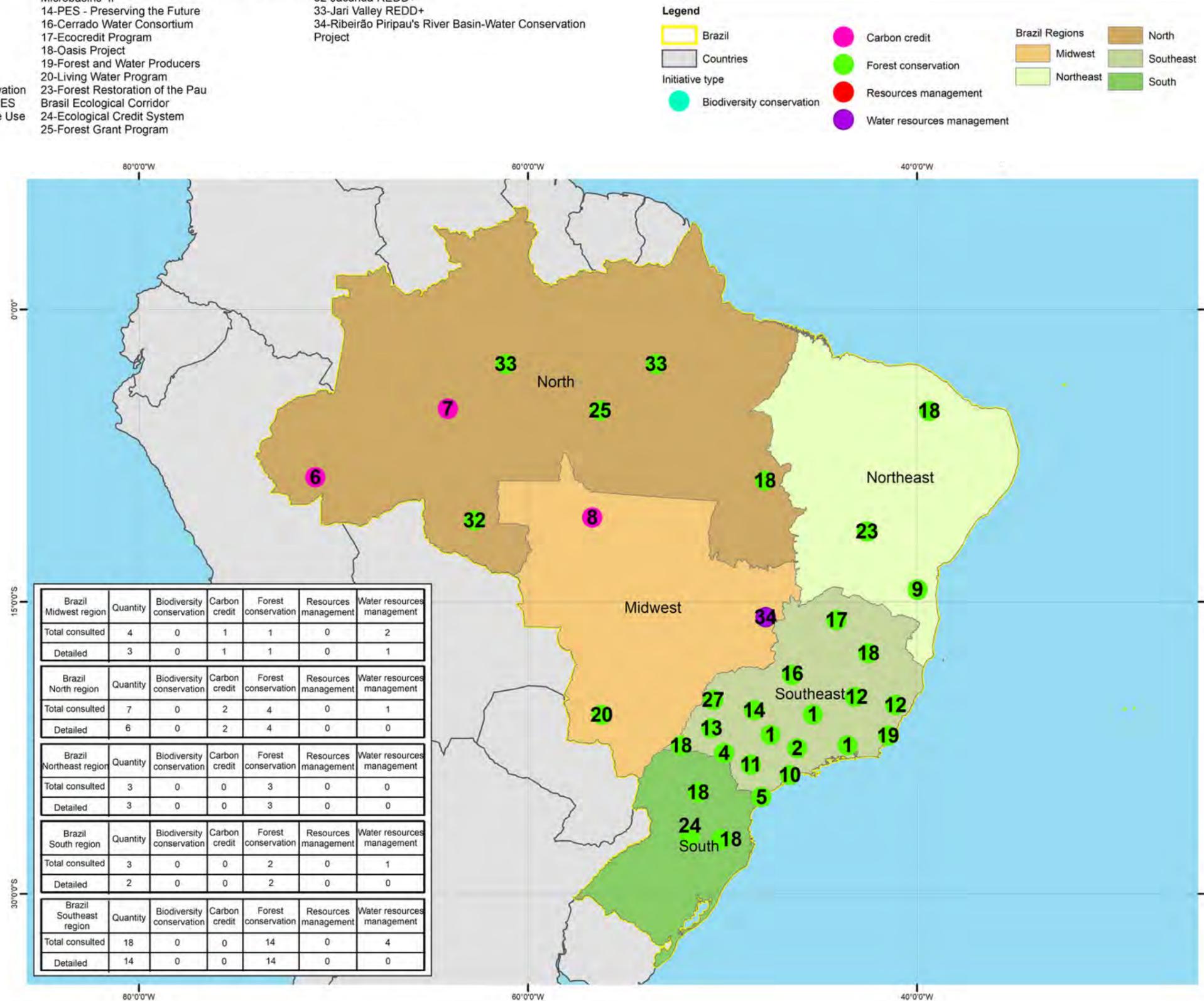


Figure 7 - Ecosystem Services Initiatives - Brazil Regions Map - Regional initiatives

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.  
 \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.  
 \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.  
 \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

ECOSYSTEM SERVICES INITIATIVES - BRAZIL REGIONS



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Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unit: Degree

1:21.000.000

An aerial photograph of a winding river flowing through a dense, vibrant green forest. The river meanders across the landscape, creating a series of loops and curves. The surrounding forest is thick and lush, with varying shades of green. The overall scene is a beautiful natural landscape.

**BRAZIL**  
*NORTH*

6-Indigenous Territory  
 7-Puru's Roots  
 18-Oasis Project  
 25-Forest Grant Program  
 32-Jacundá REDD+  
 33-Jari Valley REDD+

Brazil North region	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	7	0	2	4	0	1
Detailed	6	0	2	4	0	0

**Legend**

Initiative type

- Biodiversity conservation
- Carbon credit
- Forest conservation
- Resources management
- Water resources management

- Brazil-North region
- Countries

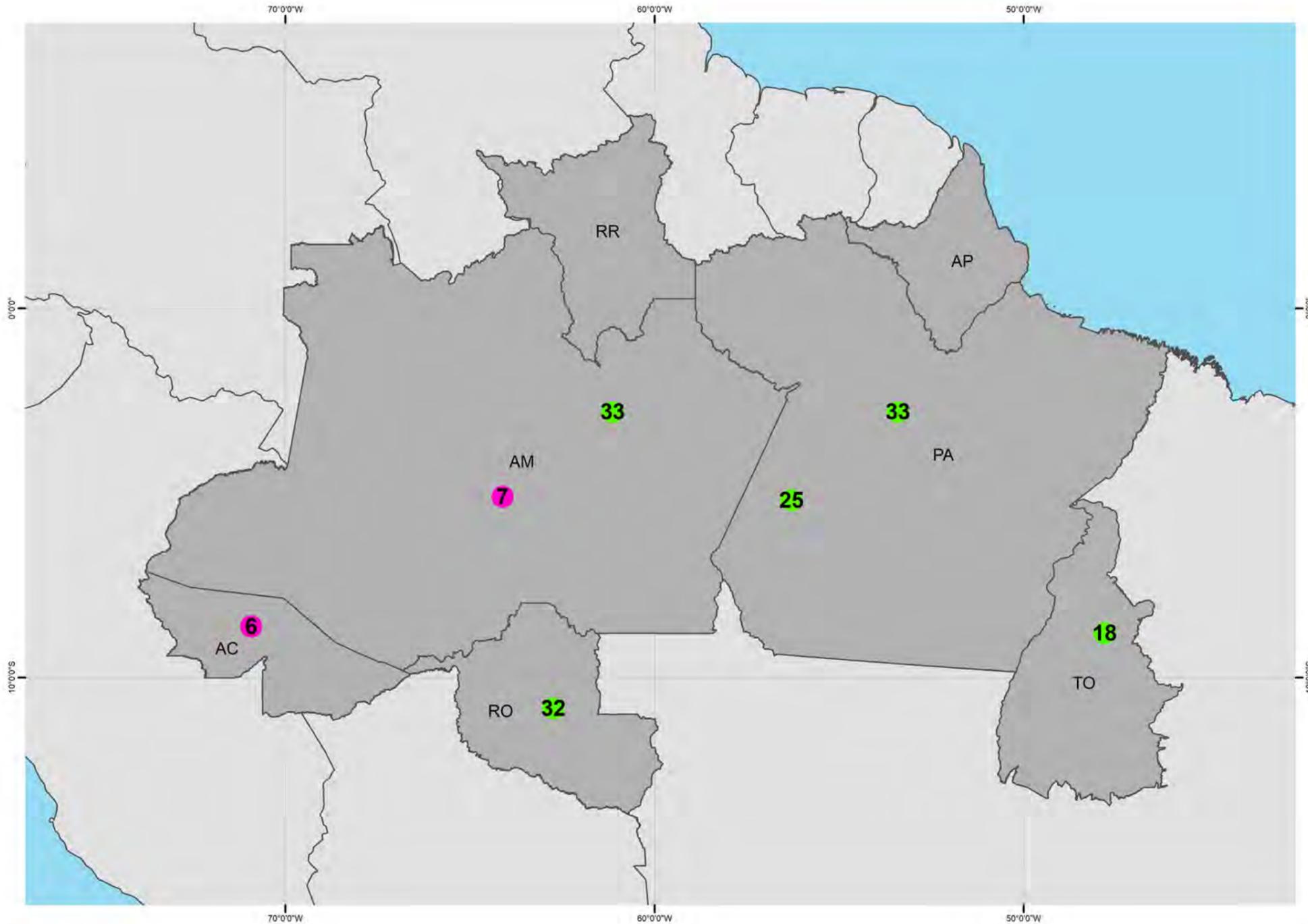


Figure 8 - Ecosystem Services Initiatives - Brazil North Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.  
 \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.  
 \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.  
 \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

**ECOSYSTEM SERVICES INITIATIVES - BRAZIL - NORTH**



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**Solidaridad**



Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unitis: Degree



1:12.000.000

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	STATE	COUNTRY		LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT-AMOUNT PER HECTARE	WEBSITE
6	Petrobrás/ Acre's Agroforestry Indigenous Agents Association Movement	Indigenous Territory	To increase the agroforest production in four indigenous regions of Acre through SAFs, strengthening the agroforest extension and production of food.	2013-2014	Finished	Whole State	AC	Brazil		GHG Mitigation	NGO	Carbon Credit	Amazon Forest	Carbon Credits / Food Production	Unspecified	<a href="https://www.facebook.com/amaaiac/">https://www.facebook.com/amaaiac/</a>
7	Petrobras/ Native Amazon Operation (OPAN)	Puru's Roots	Develop actions geared toward the appreciation of indigenous lands in the mid Purus river through the establishment of management strategies of these territories.	2013	Active	Region of Purus, Xerua and Juruá Rivers	AM	Brazil		GHG Mitigation	NGO	Carbon Credit	Amazon Forest	Land management and sustainable use of resources, such as the management of Pirarucu (fish), the production of cassava flour and the implementation of agroforestry systems.	Unspecified	<a href="https://amazonianativa.org.br/category/raizes/">https://amazonianativa.org.br/category/raizes/</a>
18	Boticario Group Foundation	Oasis Project	Stimulating the conservation of natural areas and their biodiversity, water production and adoption of good conservation and use of soil, incrementing the income of land owners from different regions of the country, through a PES mechanism	2012	Unspecified	Whole Country	CE / TO / MG / SP / SC / PR	Brazil		Agricultural Support / Classic PES	Public-Private Partnership	Forest Conservation	All Brazilian Biomes	Unspecified	<p>PES Value = <math>X * [1 + (\sum N)]</math></p> <p>* Z Where: X= opportunity cost percentage (25% of the land leasing)</p> <p>N= Water Quality Grade; Conservation Quality; Agricultural Quality; Property Management Quality.</p> <p>Z= Total natural area of the leased property</p>	<a href="https://www2.camara.leg.br/atividade-legislativa/comissoes/comissoes-permanentes/cft/eventos/seminarios/pagamento-por-servicos-ambientais/apresentaondrferretti.pdf">https://www2.camara.leg.br/atividade-legislativa/comissoes/comissoes-permanentes/cft/eventos/seminarios/pagamento-por-servicos-ambientais/apresentaondrferretti.pdf</a>
25	Sustainable Amazon Foundation (FAS)	Forest Grant Program	Implemented by FAS since 2008, the initiative is a PES aimed at the families that live or depend on the 16 conservation units of the state, which adherence involves the compliance to 9 main parameters, in addition to other complimentary pre-requisites in support of the compromise agreement signed by each new recipient.	2008-2018	Active Unspecified	Amazon Forest Region	North	Brazil		Classic PES	Public-Private Partnership	Forest Conservation	Amazon Forest	The Foundation field teams ensure the fulfillment of the specific criteria of non-deforestation, registration status, keeping track if the children are in school, and others.	R\$ 600, divided in R\$ 50 monthly deposits in the participating families cards. The amount doesn't expire and is cumulative, and may be drawn at anytime within 12 months. If it remains inactive after this period, the benefit will not be suspended, but the card maybe blocked until regularisation at FAS	<a href="https://fas-amazonas.org/programas/pbf/">https://fas-amazonas.org/programas/pbf/</a>
32	Biofilica	Jacundá REDD+	Rio Preto's Reserve - Jacundá is a conservancy unit, created in the 90's for the "seringalista" (rubber extractors) population. The RESEX (Extractivist Reserve) region faces strong pressure against predatory natural resource exploration, and have been suffering a great deficiency of basic public services, by which, the residents have found the PES model to be the solution for social development and the conservation of their territory.	2012 - Unspecified	Unspecified	Machadinho D'Oeste e Cujubim	RO	Brazil		GHG Mitigation / Classic PES	International Fund	Forest Conservation	Amazon Forest	Unspecified	Unspecified	<a href="https://www.biofilica.com.br/projeto-redd-jacunda/">https://www.biofilica.com.br/projeto-redd-jacunda/</a>
33	Biofilica	Jari Valley REDD+	Jari's Valley has a variety of activities, ranging from forest management, to agriculture and forest extractivism. It is a region of the utmost social and environmental importance, which is constantly at risk by human activities. The properties of Jari's group are located within this context, and have large regional importance.	2011/2014 - Unspecified	Unspecified	Laranjal do Jari e Vitória do Jari - Amapá Almeirim - Pará	AM/PA	Brazil		GHG Mitigation / Classic PES	International Fund	Forest Conservation	Amazon Forest	Unspecified	Unspecified	<a href="https://www.biofilica.com.br/projeto-redd-vale-do-jari/">https://www.biofilica.com.br/projeto-redd-vale-do-jari/</a>

Table 6 - Detailed table of initiatives - Brazil/North



**BRAZIL**  
NORTHEAST

9-Environmental Conservation/Productive Conservation  
 18-Oasis Project  
 23-Forest Restoration of the Pau Brasil Ecological Corridor

Brazil Northeast region	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	3	0	0	3	0	0
Detailed	3	0	0	3	0	0

**Legend**

- Initiative type
- Biodiversity conservation
  - Carbon credit
  - Forest conservation
  - Resources management
  - Water resources management
  - Brazil-Northeast region
  - Countries



Figure 9 - Ecosystem Services Initiatives - Brazil Northeast Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.  
 \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.  
 \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.  
 \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

**ECOSYSTEM SERVICES INITIATIVES - BRAZIL - NORTHEAST**



Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unitis: Degree



1:10.000.000

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	STATE	COUNTRY		LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT - AMOUNT PER HECTARE	WEBSITE
9	Odebrecht Foundation/ Earth Conservancy Organization	Environmental Conservation Productive Conservation	Coordinating projects to restore and revive water sources, favoring the region's hydro capacity and carbon compensation. It also contributes to the environmental regularisation of properties, helping farmers to enroll into CEFIR (State Forest Rural Property Register). It also encourages low impact agricultural cultures, reforestation and property occupation with cultures that add to the maintenance of the ecosystem.	2001	Active	Papua Hub -Environmental Protection Area (APA) of Pratigi - Ibirapitanga	BA	Brazil		GHG Mitigation/ Agricultural Support	NGO	Forest Conservation	Atlantic Forest	Involvement and participation of the local government	Unspecified	<a href="https://www.oct.org.br/quem-somos/programa-de-servicos-ambientais/29/">https://www.oct.org.br/quem-somos/programa-de-servicos-ambientais/29/</a>
18	Boticario Group Foundation	Oasis Project	Stimulating the conservation of natural areas and their biodiversity, water production and adoption of good conservation and use of soil, incrementing the income of land owners from different regions of the country, through a PES mechanism	2012	Unspecified	Whole Country	CE / TO / MG / SP / SC / PR	Brazil		Agricultural Support / Classic PES	Public-Private Partnership	Forest Conservation	All Brazilian Biomes	Unspecified	PES Value = $X * [ 1 + ( \sum N ) ] * Z$ Where: X= opportunity cost percentage (25% of the land leasing) N= Water Quality Grade; Conservation Quality; Agricultural Quality; Property Management Quality. Z= Total natural area of the leased property	<a href="https://www2.camara.leg.br/atividade-legislativa/comissoes/comissoes-permanentes/cft/eventos/seminarios/seminarios-2012/pagamento-por-servicos-ambientais/apresentaondrferretti.pdf">https://www2.camara.leg.br/atividade-legislativa/comissoes/comissoes-permanentes/cft/eventos/seminarios/seminarios-2012/pagamento-por-servicos-ambientais/apresentaondrferretti.pdf</a>
23	IBIO	Forest Restoration of the Pau Brasil Ecological Corridor	Implemented in 2009, the program focuses on contribution to the restoration of forest coverage and the conectivity between Paul Brasil and Monte Pascoal National Parks, south of Bahia.	Unspecified	Active	Monte Pascoal	BA	Brazil		Classic PES	NGO	Forest Conservation	Atlantic Forest	The initiative has had financing from many institutions, including Natura, TNC, CO2 Zero Institute, Coelba, KFW Bank aus Verantworking, Petrobras, and also, from partnerships with local rural land owners, from Veracel Cellulose and ICMBio.	Unspecified	<a href="http://ibio.org.br/pb/projetos/restauracao-florestal-do-corredor-ecologico-pau-brasil-monte-pascoal-ba">http://ibio.org.br/pb/projetos/restauracao-florestal-do-corredor-ecologico-pau-brasil-monte-pascoal-ba</a>

Table 7 - Detailed table of initiatives - Brazil/Northeast



**BRAZIL**  
MIDWEST

8-Irehi: Taking Care Of The Land  
 20-Living Water Program  
 34-Ribeirão Piripau's River Basin-Water Conservation Project

Brazil Midwest region	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	4	0	1	1	0	2
Detailed	3	0	1	1	0	1

**Legend**

Initiative type

- Biodiversity conservation
- Carbon credit
- Forest conservation
- Resources management
- Water resources management

Brazil-Midwest region

Countries

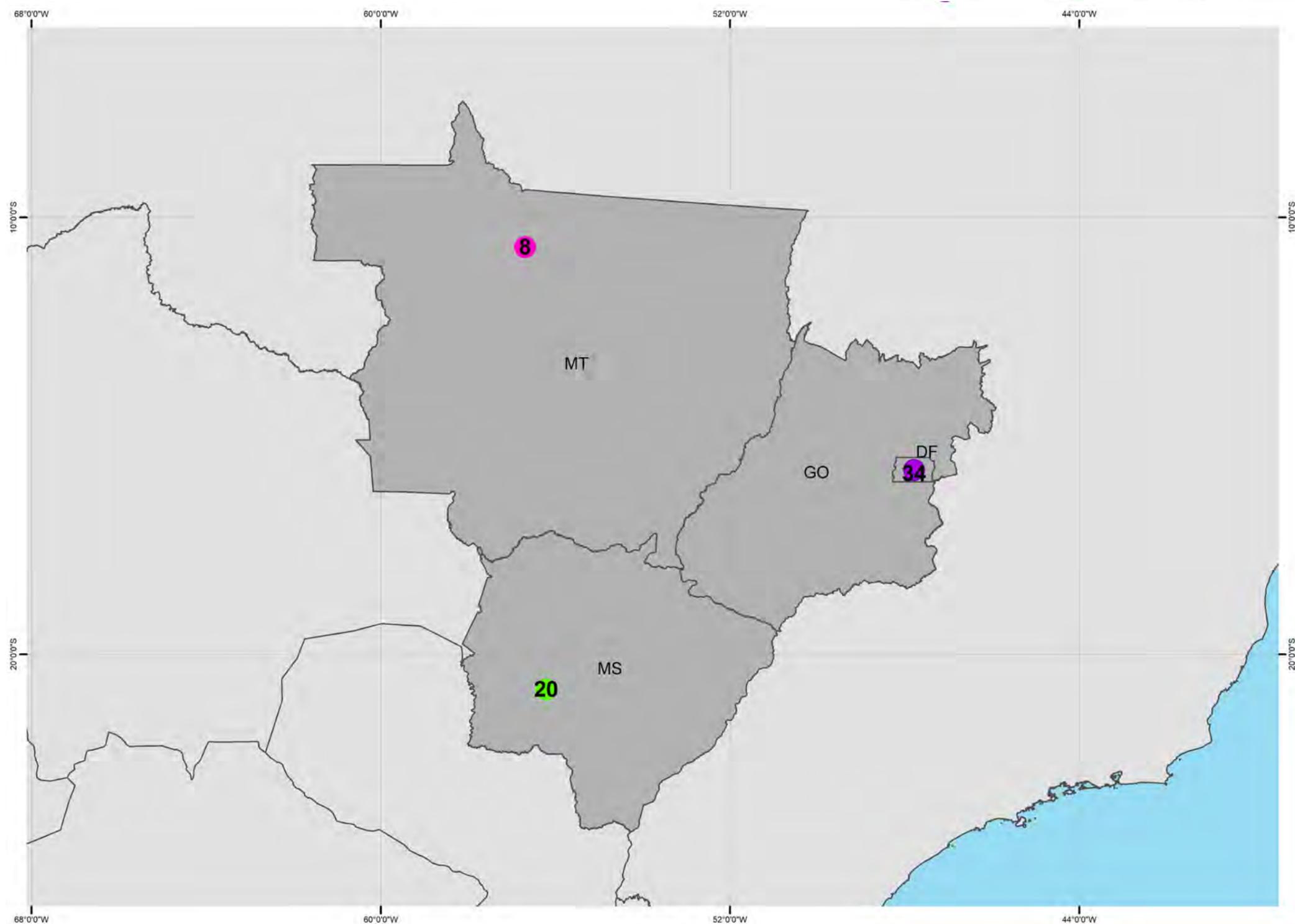


Figure 10 - Ecosystem Services Initiatives - Brazil Midwest Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.

\* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.

\* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.

\* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

## ECOSYSTEM SERVICES INITIATIVES - BRAZIL - MIDWEST



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Datum: WGS 1984

Unitis: Degree



1:10.000.000

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	STATE	COUNTRY		LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT-AMOUNT PER HECTARE	WEBSITE
8	OPAN	Irehi: Taking Care Of The Land	Strengthen the indigenous lands protection and management, Manoki, Myky, Nambikwara e Xavante de Marãiwatsédé, contribution to the sustainable agroforest production and extractivism, bolstering their collective identities.	2017	Active	Indigenous Territory	MT	Brazil		GHG Mitigation/ Agricultural Support	NGO	Carbon Credit	Amazon Forest	Amazon Trust Fund	Unspecified	<a href="https://amazonianativa.org.br/category/irehi/">https://amazonianativa.org.br/category/irehi/</a>
20	SEMADUR/PMCG	Living Water Program	The Manancial Vivo Program follows the directives and concepts of the Water Conservation Project, designed by ANA, which is a voluntary program that aims to restore the water potential and diffuse pollution within the rural areas of the country.	2009-2018	Active Unspecified	Campo Grande	MS	Brazil		Classic PES	Public Initiative	Forest Conservation		The PES to rural land owners will be based on the actions and maintenance of the recommended practices of the Manancial Vivo Program technicians. The program provides, free of charge, a technical team for the development of projects and technical assistance for the execution of all of the projects that meet the objectives of Manancial Vivo Program. The practices and recommended actions by the technical team may be subsidized by the Manancial Vivo Program responsible entities.	Unspecified	<a href="http://www.campogrande.ms.gov.br/semadur/canais/manancial-vivo/">http://www.campogrande.ms.gov.br/semadur/canais/manancial-vivo/</a>
34	Mainly Adasa (Agência Reguladora de Águas, Energia e Saneamento Básico do Distrito Federal - Water, Energy and Basic Sanitation Regulatory Agency), among other participants such as ANA, Banco do Brasil, Caesb, Emater-DF, Ibram, Seagri-DF, The Nature Conservancy and WWF.	Ribeirão Piripau's River Basin - Water Conservation Project	According to the basin's diagnostic written in 2010, the objectives defined were of 1.632 ha of vegetation coverage on PPAs (Permanent Protected Areas) and LRs (Legal Reserves), and of 14.800 ha for soil conservation. The project has sought to reach unceasing and relevant results, proven by the monitoring of the water quality and quantity in the river basin.	2010-2020	Active	Ribeirão Piripau	DF	Brazil		Classic PES	Public-Private Partnership	Water Resources Management	River Basins	Unspecified	Unspecified	<a href="http://www.produtordeaguapiripau.df.gov.br/gt-3-pagamento-por-servicos-ambientais/">http://www.produtordeaguapiripau.df.gov.br/gt-3-pagamento-por-servicos-ambientais/</a>

Table 8 - Detailed table of initiatives - Brazil/Midwest



**BRAZIL**  
SOUTHEAST

- 1-Mantiqueira's Conservation Plan
- 2-Water Conservation Plan
- 4-Paulista Environmental Credit to the Private Reserves of Natural Heritage (RPPNs)
- 5-Restinga Project
- 10-Atlantic Forest Connection Project-Protection PES
- 11-Atlantic Forest Connection Project-PSA Multiple Use
- 12-PES Rio Doce
- 13-Sustainable Rural Development Project (PDRS) Microbasins II
- 14-PES - Preserving the Future
- 16-Cerrado Water Consortium
- 17-Ecocredit Program
- 18-Oasis Project
- 19-Forest and Water Producers
- 27-Water Mine Project

Brazil Southeast region	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	18	0	0	14	0	4
Detailed	14	0	0	14	0	0

**Legend**

- Initiative type
  - Biodiversity conservation
  - Carbon credit
  - Forest conservation
  - Resources management
  - Water resources management
- Brazil-Southeast region
- Countries

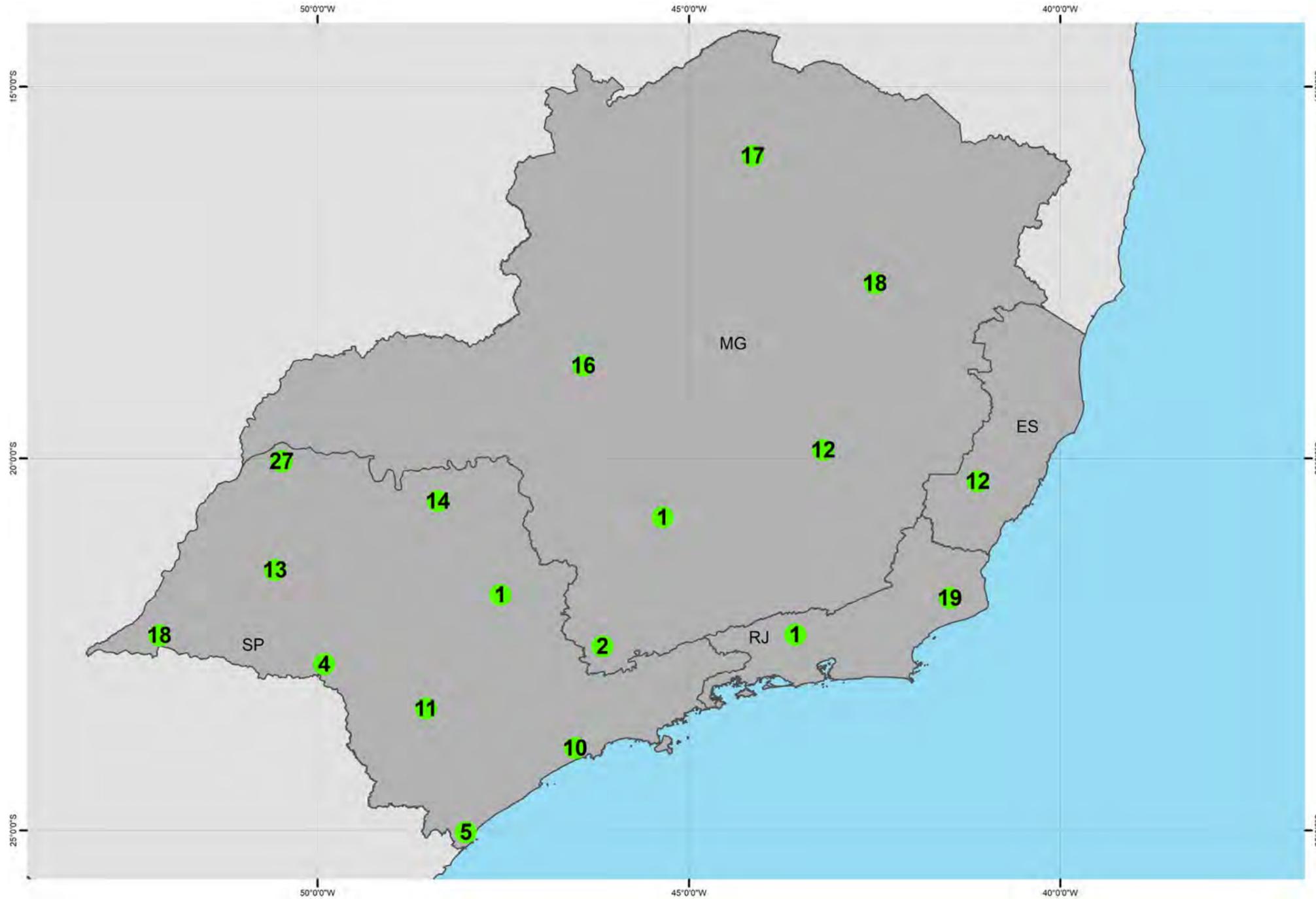


Figure 11 - Ecosystem Services Initiatives - Brazil Southeast Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.  
 \* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.  
 \* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.  
 \* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

**ECOSYSTEM SERVICES INITIATIVES - BRAZIL - SOUTHEAST**



Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unitis: Degree



1:6.000.000

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	STATE	COUNTRY		LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT AMOUNT/ HECTARE	WEBSITE
1	Several companies	Mantiqueira's Conservation Plan	The main objective of the PLANO CONSERVADOR DA MANTIQUEIRA – PCM (Mantiqueira's Conservation Plan) is to promote forest restoration on native species, within approximately 1.200.000 hectares in Serra da Mantiqueira's areas of influence, among 280 municipalities of São Paulo, Rio de Janeiro and Minas Gerais, using the expertise of the municipality of Extrema on the execution of their Water Conservation Project, first Brazilian forest restoration experience using the PES (Payment for Environmental Services) mechanism as well as the support of the Municipality Atlantic Forest Plan effort.	2018	Active	Serra da Mantiqueira	SP/ MG/ RJ	Brazil		Classic PES	Public-Private Partnership	Forest Conservation	Atlantic Forest	Unspecified	Unspecified	<a href="https://conservadordamantiqueira.org/plano/">https://conservadordamantiqueira.org/plano/</a>
2	Municipality of Extrema/ MG and several companies	Water Conservation Plan	Increase the forest coverage on the river sub-basins and to implement ecological corridors; to reduce diffuse pollution levels arising from the sedimentation and eutrophication processes, and the lack of basic sanitation; disseminate the integrated concept of vegetation, soil and water throughout the Jaguari river's water basin; ensuring socio-economic and environmental sustainability of the implemented practices and managements, through financial incentives to farmers.	2005	Active	Extrema	MG	Brazil		Agricultural Support	Public-Private Partnership	Forest Conservation	Atlantic Forest	The payment is managed by municipality of Extrema, in Minas Gerais and partners, on the promulgation of the Municipal Law number 2.100 of December 21st, 2005, that establishes the Water Conservation Project and Municipal Law 2.482 of February 13th, 2009, that institutes the municipal fund for PES, and the creation of Municipal Decree 2409 of December 29th, 2010 that regulates Municipal Law 2100 of December 21st, 2005.	R\$ 262,00/ hectare/year	<a href="https://www.extrema.mg.gov.br/conservadordasaguas/o-projeto/">https://www.extrema.mg.gov.br/conservadordasaguas/o-projeto/</a>
4	Forest Foundation / SP	Paulista Environmental Credit to the Private Reserves of Natural Heritage (RPPNs)	Bolster the protection of natural biodiversity and water resources in natural areas acknowledged as RPPN (Natural Heritage Private Reserve), within the current legislation.	2019	Active	Whole State	SP	Brazil		Classic PES	Public Initiative	Forest Conservation	Atlantic Forest	The chosen land owners that present inferior or superior PES installment calculations to the ones defined, will have the minimum value of the PES installments adjusted to R\$ 7,000.00 (seven thousand reais) and the maximum value capped at R\$ 35,000.00 (Thirty five thousand reais).	Unspecified	<a href="https://www.infraestruturameioambiente.sp.gov.br/fundacaoforestal/pagina-inicial/rppn/projeto-de-pagamento-por-servicos-ambientais-psa/">https://www.infraestruturameioambiente.sp.gov.br/fundacaoforestal/pagina-inicial/rppn/projeto-de-pagamento-por-servicos-ambientais-psa/</a>
5	Petrobrás / Austral Biodiversity Institute	Restinga Project	Restoring a Restinga area on the banks of Olaria River, in Cananeia	2014	Unspecified	Cananeia	SP	Brazil		Agricultural Support	NGO	Forest Conservation	Sand bank	Conservation Investment	Unspecified	<a href="https://www.facebook.com/bioaustral/">https://www.facebook.com/bioaustral/</a>
10	São Paulo State Government - Environmental and Infrastructure Secretariat (SIMA)	Atlantic Forest Connection Project - Protection PES	Encouraging the restoration and management of the native vegetation.	2019	Active	Ten Municipalities of Paraíba's Valley (Paraibuna, Redenção da Serra, Lagoinha, Cunha, Areias, Silveiras, Lorena, Guaratinguetá, Cachoeira Paulista e Taubaté)	SP	Brazil		Classic PES	Public Initiative	Forest Conservation	Atlantic Forest	Through reverse auction, a method that aims to make public spending efficient, selecting the most advantageous proposals by considering priority areas for biodiversity and water conservation, as well as the amount presented by the owners.	R\$ 9 million	<a href="https://www.infraestruturameioambiente.sp.gov.br/conexao/tag/psa/">https://www.infraestruturameioambiente.sp.gov.br/conexao/tag/psa/</a>

Table 9 - Detailed table of initiatives - Brazil/Southeast - Part 1

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	STATE	COUNTRY	LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT AMOUNT/ HECTARE	WEBSITE
11	São Paulo State Government - Environmental and Infrastructure Secretariat (SIMA)	Atlantic Forest Connection Project - PSA Multiple Use	Stimulates the restoration and conservation of native vegetation, as well as the productive conversion, aiming the general enhancement of rural properties and their productive systems, so that there also is progress on the productivity and income.	2019	Active	São Luís do Paraitinga and Natividade da Serra, and through the Forest Foundation, in Bananal, at the Environmental Protection Area (APA) São Francisco Xavier and the buffer zone of Itariru Hub of the Serra do Mar State Park (Itariri, Peruibe, Pedro de Toledo e Miracatu Municipalities)	SP	Brazil	Agricultural Support	Public Initiative	Forest Conservation	Atlantic Forest	A base line of the property for Multiple Use PES is established and presents the land use data and conservation practices observed on adherence to the project that define the initial payments.	Payments will be done throughout the next 2 years considering the resolution of problems and enhancement opportunities of the land management.	<a href="https://www.infraestruturameioambiente.sp.gov.br/conexao/tag/psa/">https://www.infraestruturameioambiente.sp.gov.br/conexao/tag/psa/</a>
12	Renova Foundation	PES Rio Doce	With the intention of supporting and serving as a stimulus to admit owners or holders of rural areas for environmental restoration of degraded PPAs and water source recharge areas throughout Doce river.	2018/ 2019	Active	Doce River Region	MG/ES	Brazil	Agricultural Support	NGO	Forest Conservation	Atlantic Forest and Cerrado (Savanna)	The owner is responsible for answering in an immediate manner to leaf-cutting ant attacks and other insects to the seedlings, maintaining the fence and firebreaks on the property, to prevent incursion of cattle and fires. If these responsibilities are fulfilled, the land owner/holder will receive full payment per hectare.	R\$ 252,00/ hectare/year (APP Restoration) R\$126,00/ hectare/year (Water Conservation)	<a href="https://www.fundacaorenova.org/paineis/edital-para-pagamento-por-servicos-ambientais-psa/">https://www.fundacaorenova.org/paineis/edital-para-pagamento-por-servicos-ambientais-psa/</a>
13	São Paulo State Government - Environmental and Infrastructure Secretariat (SIMA)	Sustainable Rural Development Project (PDRS) Microbasins II	Expanding the rural activity sustainability in an articulate manner	2014 to 2017	Unspecified	São Paulo	SP	Brazil	Agricultural Support	Public Initiative	Forest Conservation	Atlantic Forest and Cerrado (Savanna)	Unspecified	Unspecified	<a href="https://sigam.ambiente.sp.gov.br/sigam3/Default.aspx?idPagina=13536">https://sigam.ambiente.sp.gov.br/sigam3/Default.aspx?idPagina=13536</a>
14	Piracicaba Municipality	PES - Preserving the Future	An initiative that has the main goal of conservation of rural areas with the capacity of producing brute water within municipal limits.	2020	Active	Piracicaba	SP	Brazil	Classic PES	Public Initiative	Forest Conservation	Atlantic Forest	Through the Municipal Decree 17.218 of 2017, and the technical analysis and projects validated by the Unit of Management of Projects (UGP/PSA) and by the Municipal Rural Development Council (Comder), in accordance with Municipal Law 8.989 of 2018.	Unspecified	<a href="http://www.piracicaba.sp.gov.br/imprimir/preservando-o-futuro.aspx">http://www.piracicaba.sp.gov.br/imprimir/preservando-o-futuro.aspx</a>
16	Critical Ecosystem Partnership Fund	Cerrado Water Consortium	Influence the creation of public policies that promote the conservation and restoration of Cerrado ecosystems, enhancing the agricultural supply chain sustainability.	2017-2019	Finished Unspecified	Cerrado Mineiro	MG	Brazil	Agricultural Support	Public-Private Partnership	Forest Conservation	Cerrado (Savanna)	The initiative is headed by the Cerrado das Águas Consortium, a multi-disciplinary effort of agricultural producers, coffee brands, local and global environmental NGOs whose actions resulted on the foundation of a legally independent organization with a highly specialized team that promotes environmental development through reforestation, climatically smart agriculture and efficient water resources management. Based on the IUCN initial support, the main coffee brands, such as Nespresso and Lavazza, alongside Expocaccer Cooperative have united to sign a 5 year commitment to support the Environmentally Conscious Producer Investment Program that unites three different work fronts that aim to improve the offers and provision of regulatory ecosystemic services (water quality, soil quality, carbon stocks, etc) in order to achieve climatic resilience of the territory.	Unspecified	<a href="http://cepfcerrado.iieb.org.br/projetos/cerrado-waters-consortium-uma-rede-de-provisionamento-de-servicos-ecossisticos-e-sustentabilidade-agricola/">http://cepfcerrado.iieb.org.br/projetos/cerrado-waters-consortium-uma-rede-de-provisionamento-de-servicos-ecossisticos-e-sustentabilidade-agricola/</a>
17	Montes Claros Municipality	Ecocredit Program	The farmer that adheres to the program will be compensated for conserving water sources and PPAs. The compensation are specific ballots produced by SEMMAD and that can be used to pay municipal taxes or also to purchase supplies in any agricultural shop.	2020	Active	Montes Claros	MG	Brazil	Agricultural Support / Classic PES	Public Initiative	Forest Conservation	Atlantic Forest	In Montes Claros, the Ecocredit Program pays a bonus of R\$ 110,10 per semester (R\$ 220,20/yearly) for every preserved hectare. Since it's creation, four years ago, 39 rural land owners joined the program. Today, there are 1,476 hectares preserved. The municipality yields, yearly, R\$ 162,500.00 as environmental conservation credit.	R\$ 166,15/ hectare	<a href="https://semma.montesclaros.mg.gov.br/ecocredito">https://semma.montesclaros.mg.gov.br/ecocredito</a>

Table 9 - Detailed table of initiatives - Brazil/Southeast - Part 2

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	STATE	COUNTRY		LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT AMOUNT/ HECTARE	WEBSITE
18	Boticario Group Foundation	Oasis Project	Stimulating the conservation of natural areas and their biodiversity, water production and adoption of good conservation and use of soil, incrementing the income of land owners from different regions of the country, through a PES mechanism	2012	Unspecified	Whole Country	CE / TO / MG / SP / SC / PR	Brazil		Agricultural Support / Classic PES	Public-Private Partnership	Forest Conservation	All Brazilian Biomes	Unspecified	$\text{PES Value} = X * [1 + (\sum N)] * Z$ Where: X= opportunity cost percentage (25% of the land leasing) N= Water Quality Grade; Conservation Quality; Agricultural Quality; Property Management Quality. Z= Total natural area of the leased property	<a href="https://www2.camara.leg.br/atividade-legislativa/comissoes/comissoes-permanentes/cft/eventos/seminarios/seminarios-2012/pagamento-por-servicos-ambientais/apresentaoadrferretti.pdf">https://www2.camara.leg.br/atividade-legislativa/comissoes/comissoes-permanentes/cft/eventos/seminarios/seminarios-2012/pagamento-por-servicos-ambientais/apresentaoadrferretti.pdf</a>
19	Earth Institute of Environmental Preservation (ITPA)	Forest and Water Producers	A PES model for people that demonstrably contribute to the protection and restoration of forest remnants, assisting on the regeneration of the potential generation of water sources and its conveniences.	Unspecified	Active Unspecified	Guandu River	RJ	Brazil		Classic PES	Public-Private Partnership	Forest Conservation	Atlantic Forest	The funding for this payment, that may vary between 10 and 60 reais per hectare/year, according to the potential of each area, arises from the payment for the allocation and uses of water managed by Guandu's River Basin Committee (regulated by State Law number 31.178 of April 3rd, 2002). One part of the amounts paid from water users is intended for the the payment of the direct owners responsible for water production.	Unspecified	<a href="http://www.itpa.org.br/?page_id=497">http://www.itpa.org.br/?page_id=497</a>
27	São Paulo State Government - Environmental and Infrastructure Secretariat (SIMA)	Water Mine Project	Even in times of water crisis, Votuporanga guarantees the water provision without any major shocks. These good news are the results of the city's participation in PPA management and restoration programs, aiming the protection of the water basins of Córrego Marinheirinho, upstream of Prefeito Luiz Garcia Haro Dam.	2010-2020	Active	Votuporanga	SP	Brazil		Classic PES	Public Initiative	Forest Conservation	Atlantic Forest	The Mina D'água project was the first PES project of São Paulo, crated by SMA resolution 123 of 2010, according to the Climate Change State Policy.	Unspecified	<a href="https://www.infraestruturameioambiente.sp.gov.br/tag/projeto-mina-dagua/">https://www.infraestruturameioambiente.sp.gov.br/tag/projeto-mina-dagua/</a>

Table 9 - Detailed table of initiatives - Brazil/Southeast - Part 3

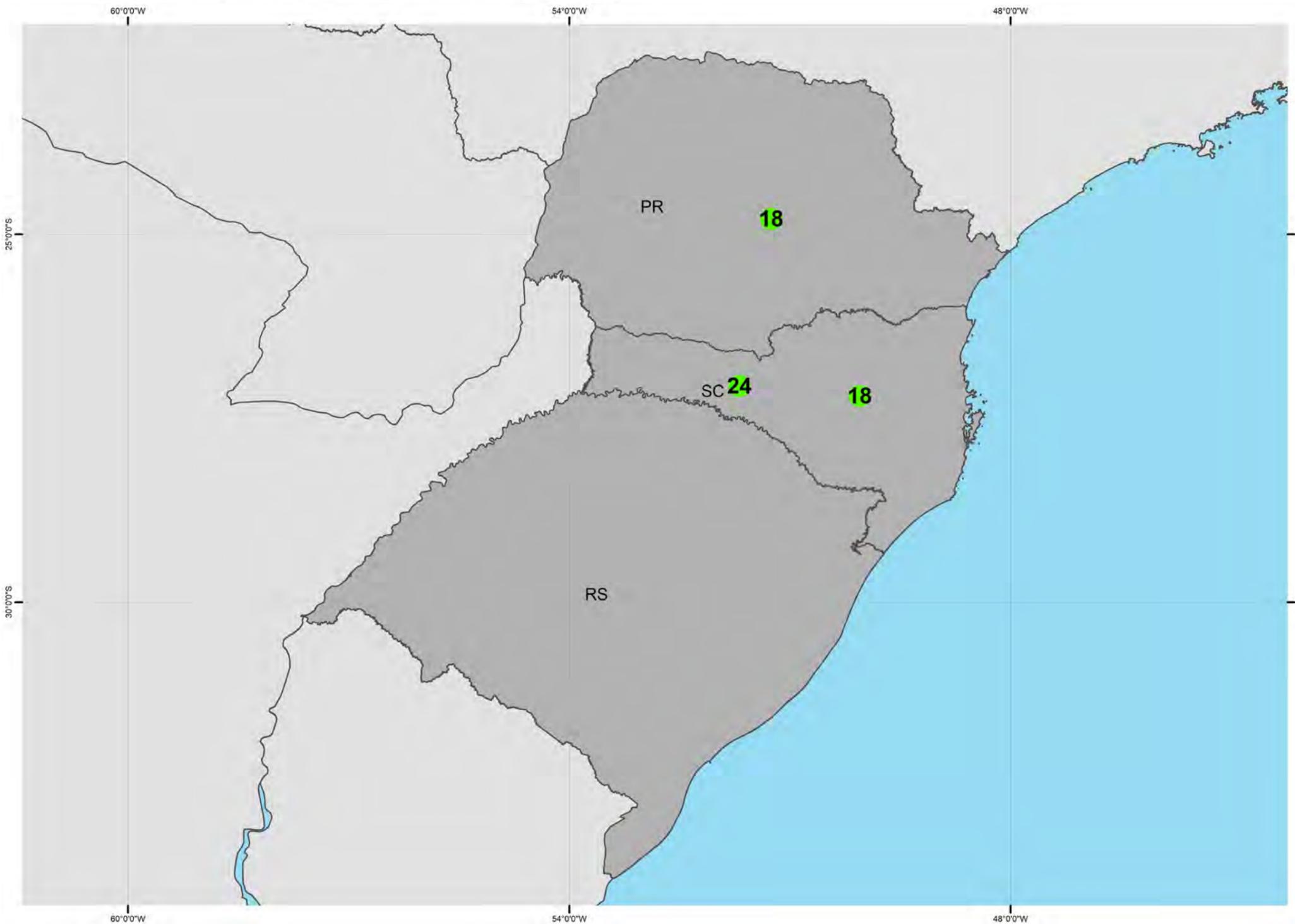
An aerial photograph of a waterfall cascading down a rocky cliff into a lush green forest. The waterfall is on the left side of the frame, and the forest covers the rest of the landscape. The text 'BRAZIL' is overlaid in large white letters, and 'SOUTH' is overlaid in smaller white letters below it.

**BRAZIL**  
*SOUTH*

Brazil South region	Quantity	Biodiversity conservation	Carbon credit	Forest conservation	Resources management	Water resources management
Total consulted	3	0	0	2	0	1
Detailed	2	0	0	2	0	0

Legend

- Initiative type
- Biodiversity conservation
  - Carbon credit
  - Forest conservation
  - Resources management
  - Water resources management
- Brazil-South region  
 Countries



**ECOSYSTEM SERVICES INITIATIVES - BRAZIL - SOUTH**



Earth Innovation Institute



FORESTS | FARMS | FINANCE INITIATIVE



**Solidaridad**



Figure 12 - Ecosystem Services Initiatives - Brazil South Map

\* Carbon Credit - This type of initiative refers to when main focus of the environmental actions are focused on GHG mitigation and the payout given to the farmers/land owners is in the form of Carbon Credit.

\* Resources Management - This type of initiative refers to the management of natural resources as a whole, such as water production, soil integrity, vegetation cover throughout the region. The payout is generally money or tax reductions.

\* Water Resources Management - This type of initiative refers to the specific management of water resources, such as the need for reforestation of the buffer area for water production and reducing eutrophication, or such as the conservation of water sources for human/animal consumption and/or agricultural uses. The main focus of this type is to invest in farmers or other land owners that need a financial incentive to maintain the vegetation close to the rivers.

\* Biodiversity Conservation - This type of initiative refers to conserving endangered species, such as animal or plant, but to focus on developing the area in order to support the presence of related species. The main focus of investment is enabling farmers or land owners to keep preserving/restoring the natural habitat of those species, without compromising their own budget.

\* Forest Conservation - This type of initiative refers to the conservation/restoration of forests and vegetation as the main focus of investment. It enables farmers and land owners to financially manage their forest land without having to deforest.

Coordinate System: GCS WGS 1984

Datum: WGS 1984

Unit: Degree

1:6.000.000

NUM	ASSIGNED INSTITUTIONS	INITIATIVE	DESCRIPTION	PERIOD	STATUS	CITY	STATE	COUNTRY	LINE OF BUSINESS	TYPE OF PARTNERSHIP	TYPE OF INITIATIVE	BIOME	REMUNERATION	PAYOUT AMOUNT/HECTARE	WEBSITE
18	Boticario Group Foundation	Oasis Project	Stimulating the conservation of natural areas and their biodiversity, water production and adoption of good conservation and use of soil, incrementing the income of land owners from different regions of the country, through a PES mechanism	2012	Unspecified	Whole Country	CE / TO / MG / SP / SC / PR	Brazil	Agricultural Support / Classic PES	Public-Private Partnership	Forest Conservation	All Brazilian Biomes	Unspecified	$PES\ Value = X * [ 1 + ( \sum N ) ] * Z$ Where: X= opportunity cost percentage (25% of the land leasing) N= Water Quality Grade; Conservation Quality; Agricultural Quality; Property Management Quality. Z= Total natural area of the leased property	<a href="https://www2.camara.leg.br/atividade-legislativa/comissoes/comissoes-permanentes/cft/eventos/seminarios/seminarios-2012/pagamento-por-servicos-ambientais/apresentaoandferretti.pdf">https://www2.camara.leg.br/atividade-legislativa/comissoes/comissoes-permanentes/cft/eventos/seminarios/seminarios-2012/pagamento-por-servicos-ambientais/apresentaoandferretti.pdf</a>
24	Santa Catarina's Environment Institute (IMA)	Ecological Credit System	The program aims to unite nature conservation to local economic development, integrating the reality of farmers to environmental preservation. Ecological corridors encompass the river basins of the Chapecó and Timbó rivers, to the west and north plateau. The area, that has around 10.000 km², encompasses 34 municipalites and matches 10.7% of the Catarinense territory. Over 260 properties have been contemplated by the PES, that compensates land owners that conserve native forests within their property.	2019-2020	Active	Chapecó and Timbó Rivers	SC	Brazil	Agricultural Support / Classic PES	Public Initiative	Forest Conservation	Atlantic Forest	The project started to be implanted last month, and within 60 days, Fatma will define the amounts, the bank recieving the payment, and the company responsible for the audit of the areas. At the beginning of the program, for a yet to be determined period, the admission of companies shall be on a voluntary basis. The system is in development for three years, and had the support of Fatma's Attorney Services and the Sustainable and Economic Development Secretariat.	Unspecified	<a href="http://www.ima.sc.gov.br/index.php/noticias/756-fatma-lanca-oficialmente-sistema-de-creditos-de-conservacao">http://www.ima.sc.gov.br/index.php/noticias/756-fatma-lanca-oficialmente-sistema-de-creditos-de-conservacao</a>

Table 10 - Detailed table of initiatives - Brazil/South

## 4. BIBLIOGRAPHIC REFERENCE

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## 5. PROJECT ATTACHMENTS

N.º	Project Name	Location	State	Country	Project Type
1	Mantiqueira's Conservation Plan	Serra da Mantiqueira	SP/MG/RJ	Brazil	Forest Conservation
2	Water Conservation Plan	Extrema	MG	Brazil	Forest Conservation
3	Zero Carbon Project	Whole Country	BR	Brazil	Carbon Credit
4	Paulista Environmental Credit to the Private Reserves of Natural Heritage (RPPNs)	Whole State	SP	Brazil	Forest Conservation
5	Restinga Project	Cananéia	SP	Brazil	Forest Conservation
6	Indigenous Territory	Whole State	AC	Brazil	Carbon Credit
7	Puru's Roots	Region of Purus, Xeruã and Juruá Rivers	AM	Brazil	Carbon Credit
8	Irehi: Taking Care Of The Land	Indigenous Territory	MT	Brazil	Carbon Credit
9	Environmental Conservation - Productive Conservation	Papua Hub -Environmental Protection Area (APA) of Pratigi - Ibirapitanga	BA	Brazil	Forest Conservation
10	Atlantic Forest Connection Project - Protection PES	Ten Municipalities of Paraíba's Valley (Paraibuna, Redenção da Serra, Lagoinha, Cunha, Areias, Silveiras, Lorena, Guaratinguetá, Cachoeira Paulista e Taubaté)	SP	Brazil	Forest Conservation
11	Atlantic Forest Connection Project - PSA Multiple Use	São Luís do Paraitinga and Natividade da Serra, and through the Forest Foundation, in Bananal, at the Environmental Protection Area (APA) São Francisco Xavier and the buffer zone of Itariru Hub of the Serra do Mar State Park (Itariri, Peruibe, Pedro de Toledo e Miracatu Municipalities)	SP	Brazil	Forest Conservation
12	PES Rio Doce	Doce River Region	MG/ES	Brazil	Forest Conservation
13	Sustainable Rural Development Project (PDRS) Microbasins II	São Paulo	SP	Brazil	Forest Conservation
14	PES - Preserving the Future	Piracicaba	SP	Brazil	Forest Conservation
15	Brasil's Live Forest Program	Whole Country	BR	Brazil	Forest Conservation
16	Cerrado Water Consortium	Cerrado Mineiro	MG	Brazil	Forest Conservation
17	Ecocredit Program	Montes Claros	MG	Brazil	Forest Conservation
18	Oasis Project	Whole Country	CE / TO / MG / SP / SC / PR	Brazil	Forest Conservation
19	Forest and Water Producers	Guandu River	RJ	Brazil	Forest Conservation
20	Living Water Program	Campo Grande	MS	Brazil	Forest Conservation
21	Restoration Brasil	Whole Country	BR	Brazil	Forest Conservation
22	Water Conservation Project (WCP)	Whole Country	BR	Brazil	Forest Conservation
23	Forest Restoration of the Pau Brasil Ecological Corridor	Monte Pascoal	BA	Brazil	Forest Conservation
24	Ecological Credit System	Chapecó and Timbó Rivers	SC	Brazil	Forest Conservation
25	Forest Grant Program	Amazon Forest Region	Norte	Brazil	Forest Conservation
26	Green Grant Program	Whole Country	BR	Brazil	Forest Conservation

Table 11 - Detailed Project Table - Part 1

N.º	Project Name	Location	State	Country	Project Type
27	Water Mine Project	Votuporanga	SP	Brazil	Forest Conservation
28	Forest+	Whole Country	BR	Brazil	Forest Conservation
29	Ypê Forest	Many States	BR	Brazil	Forest Conservation
30	Amazon Fund for Forest Conservation and Climate	Amazon Forest Region	BR	Brazil	Forest Conservation
31	Green Markets and Sustainable Consumption	Amazon Forest Region	BR	Brazil	Forest Conservation
32	Jacundá REDD+	Machadinho D'Oeste e Cujubim	RO	Brazil	Forest Conservation
33	Jari Valley REDD+	Laranjal do Jari e Vitória do Jari - Amapá - Almeirim - Pará	AM/PA	Brazil	Forest Conservation
34	Ribeirão Piripau's River Basin - Water Conservation Project	Ribeirão Piripau	DF	Brazil	Water Resources Management
35	Adaptation to Climate Change through Effective Water Governance in Ecuador	Los Rios, Manabi, Loja e Azuay	Unspecified	Ecuador	Resources Management
36	Scolel'te - The growing tree (El árbol que crece)	Chiapas	Not applicable	Mexico	Carbon Credit
37	CommuniTree Carbon Program	Esteli, Madriz & Nueva Segovia	Not applicable	Nicaragua	Carbon Credit
38	ArBolivia	Cochabamba	Not applicable	Bolivia	Carbon Credit
39	Trees for Global Benefits (TGB)	Albertine Rift & Mt Elgon regions	Not applicable	Uganda	Carbon Credit
40	Sofala Community Carbon	Gorongosa and Marromeu Park	Not applicable	Mozambique	Carbon Credit
41	EthioTrees – Supporting Landless Farmers in the Tembien Highlands	Tembien Highlands	Not applicable	Ethiopia	Forest Conservation
42	Loru Forest Project	Espirtu Santo	Not applicable	Vanuatu	Forest Conservation
43	Drawa Rainforest Conservation Project	Vanua Levu	Not applicable	Fiji	Forest Conservation
44	Babatana Rainforest Conservation Project	Sassamungga	Not applicable	Solomon Islands	Forest Conservation
45	Channel Payments For Ecosystem Services	Salcombe-Kingsbride Estuary, Gara and Slapton & Roadford Lake catchments, Cornwall & Devon, England; South Downs chalk grassland groundwater, Hampshire & West Sussex, England; River Rother catchment, West Sussex, England; Tremblay-Omonville Catchment, Normandy, France; Springs of La Vigne, Normandy & Center, France; Lac au Duc and Yvel-Hyvet river catchment, Brittany, France	Not applicable	France and England (UK)	Resources Management
46	Woodland Carbon Code (WCC)	Whole Country	Not applicable	UK	Carbon Credit
47	Flowering Stone Castle	Schleswig-Holstein Region	Not applicable	Germany	Biodiversity Conservation
48	Conservation-oriented management of grassland in the North Rhine-Westphalian Eifel	The districts of Euskirchen, Düren and Aachen in the Eifel region of Germany (currently approximately 5,000 ha of promoted land)	Not applicable	Germany	Biodiversity Conservation
49	Conservation Reserve Program (CRP)	Montana, between East Helena and Lake Helena	Not applicable	USA	Forest Conservation
50	Pumlumon Project	Pumlumon Region	Not applicable	Wales (UK)	Biodiversity Conservation
51	WCP Sesmaria River	Resende	RJ	Brazil	Water Resources Management

Table 11 - Detailed Project Table - Part 2

N.º	Project Name	Location	State	Country	Project Type
52	WCP Capivari River	Bom Despacho	MG	Brazil	Water Resources Management
53	WCP Ribeirão das Couves	São José dos Campos	SP	Brazil	Water Resources Management
54	Danube-Carpathian Programme	Danube Basin	Not applicable	Romania	Water Resources Management
55	Pagos por Servicios Ambientales	Whole country	Not applicable	Costa Rica	Forest Conservation
56	SINCERE - The Landscape and Recreation Value Trade initiative	Ruka-Kuusamo	Not applicable	Finland	Forest Conservation
57	SINCERE - Forests For Water	Catalonia	Not applicable	Spain	Forest Conservation
58	SINCERE - Natuurinvest (OC-ANB)	Flanders	Not applicable	Belgium	Forest Conservation
59	Khasi Hills REDD+ Project	East Khasi Hills District	Meghalaya	India	Carbon Credit
60	Bujang Raba Community PES Project	Jambi	Not applicable	Indonesia	Carbon Credit
61	Hiniduma Biodiversity Corridor	Galle District	Not applicable	Sri Lanka	Biodiversity Conservation
62	Carbon Tanzania REDD+ Yaeda Valley	Mongo wa Mono, Domanga and Yaeda Chini Villages	Not applicable	Tanzania	Carbon Credit
63	Clinton Foundation's Trees Of Hope	Neno and Dowa	Not applicable	Malawi	Resources Management
64	Reach Italia Rehabilitation Of The Sahel	Gorom-Gorom	Not applicable	Burkina Faso	Resources Management
65	USDA Great Lakes Restoration Initiative	America's Great Lakes — Superior, Michigan, Huron, Erie and Ontario	Not applicable	USA	Water Resources Management
66	USDA Missisipi River Basin	Missisipi River	Not applicable	USA	Water Resources Management
67	USDA Longleaf Pine Initiative	Eastern Texas to Southern Virginia	Not applicable	USA	Forest Conservation
68	USDA Sage Grouse Initiative	Many States	Montana, Colorado, Idaho, Wyoming, Utah, California, Arizona, Oregon, Washington, New Mexico and Nevada	USA	Biodiversity Conservation
69	NRCS Honey Bee Conservation		Michigan, Minnesota, Montana, North Dakota, South Dakota and Wisconsin.	USA	Biodiversity Conservation
70	RISEMP Matiguás		Rio Branco	Nicaragua	Water Resources Management
71	RISEMP Valle Del Cauca		Not applicable	Colombia	Resources Management
72	WCP New Brazil	Jarucu River Basin	Pará	Brazil	Water Resources Management
73	WCP Oasis Project	Lago de Furnas	Minas Gerais	Brazil	Water Resources Management
74	PROFAUNA Zapalinamé Mountain Range conservation	Saltillo, Arteaga and Ramos Arizipe	Coahuila	Mexico	Water Resources Management
75	Gemeinschaft-licher Wiesenvogelschutz (Community Protection of Meadow Birds) Project	Eider-Treene-Sorge river	Schleswig-Holstein	Germany	Biodiversity Conservation
76	Cultivating Good Water		PR/MT	Brazil	Water Resources Management

Table 11 - Detailed Project Table - Part 3



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