



Esencia y territorio

Ecoreserves

Socio-ecological planning of Ecopetrol's operational and projected areas

A conservation-based local development opportunity

2021

Serranía de las Quinchas, Pto Boyacá y Otanche, Boyacá, Colombia

Alliance Evolution

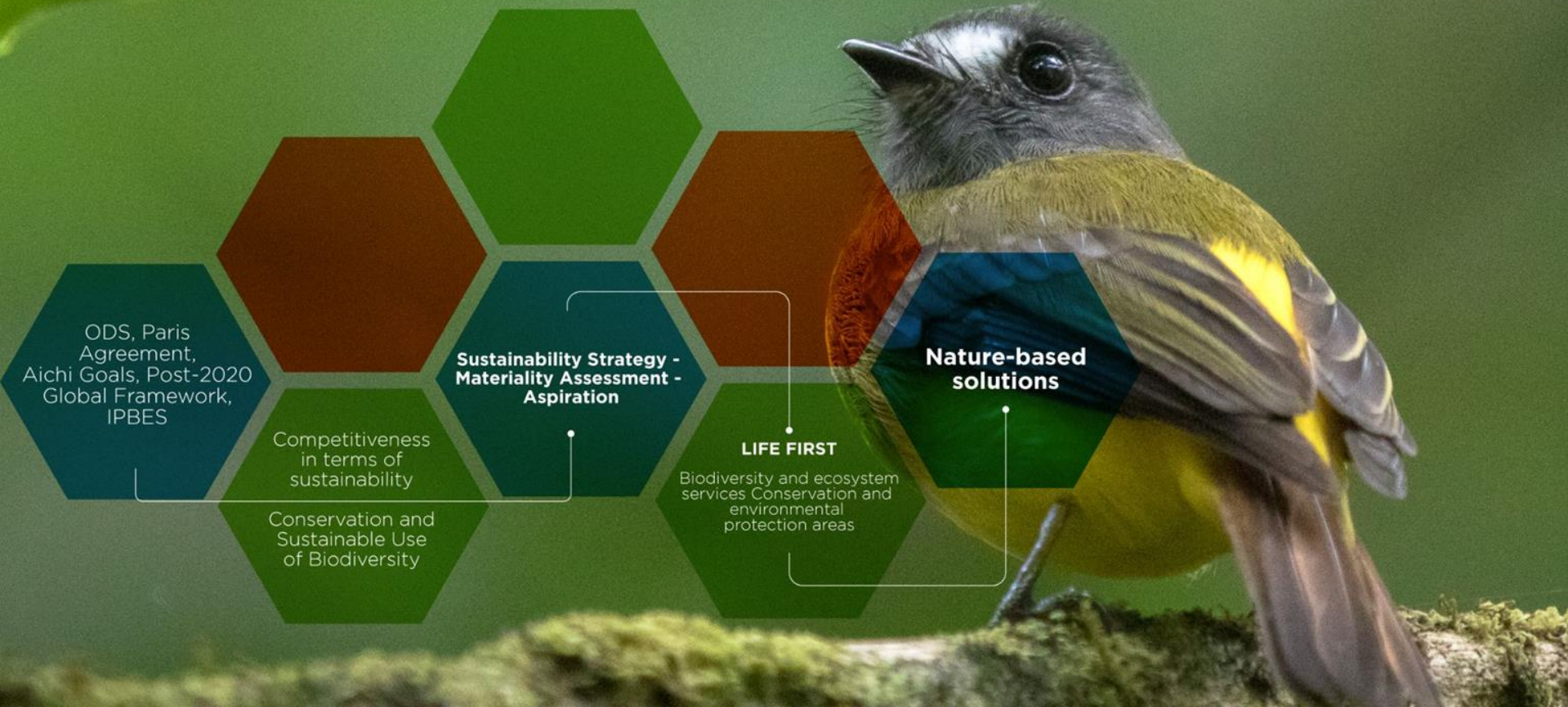
ECOPETROL – Humboldt Institute



Competitiveness in terms of Sustainability
Conservation and Sustainable use of Biodiversity

Alliance Sustainability Challenges

ECOPETROL – Humboldt Institute



¿What is **Fibras** made of?

Socio-ecological planification of the Ecopetrol's areas of interest, contributing to a sustainable transition of the hydrocarbon sector in Colombia.

Strengthen the sustainable development of these areas of interest through the conservation and sustainable use of biodiversity



A close-up photograph of bright green leaves, some showing signs of insect damage with small holes. The leaves are out of focus, creating a soft, bokeh effect.

Ecoreserves Network

Geographically delimited areas owned by Ecopetrol that are voluntarily used, in part or entire, for biodiversity conservation and the supply of ecosystem services, without affecting their productive and exploratory vocation.



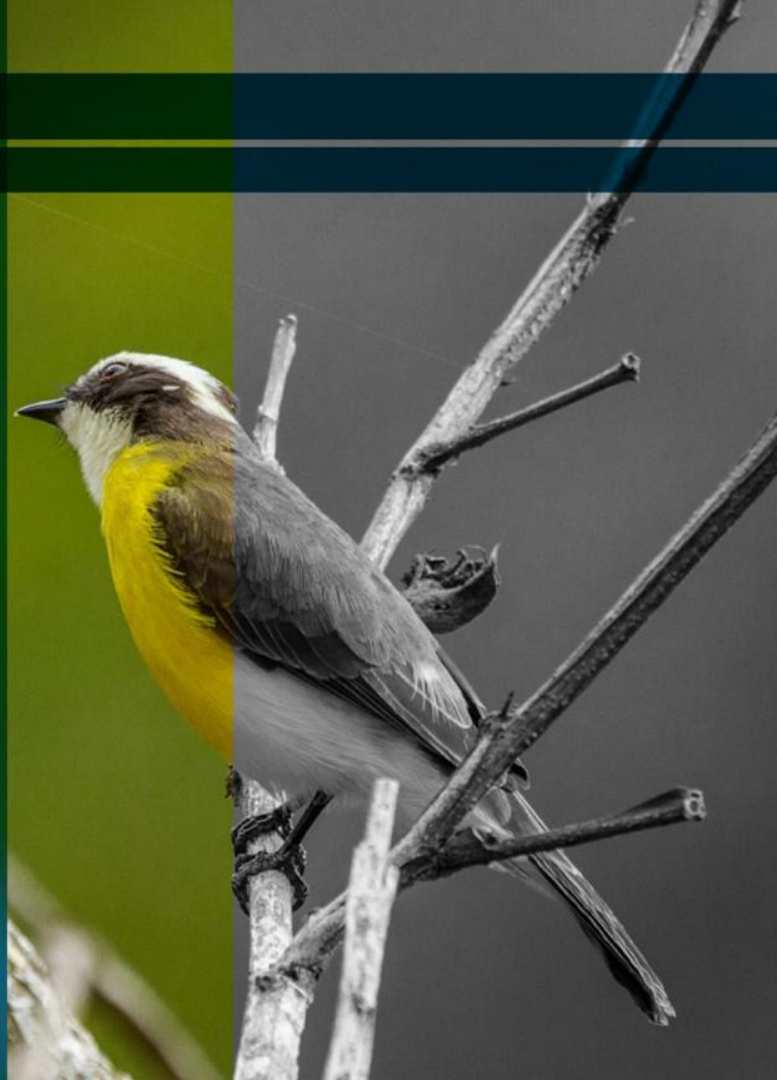
Benefits

of an Ecoreserve

- **Passive** Restoration
- Strengthening **Ecosystem Services**
- Possible alliances with **local, national and international stakeholders**
- **Conservation and sustainable** use of Biodiversity
- Applied research. **Science, Technology and Innovation**
- Participatory Governance Schemes and local Opportunities based on **Bioeconomy, Biosolutions and Green Businesses**
- **Nature-based Solutions (NbS)**

Competitiveness in terms of Sustainability

Conservation and Sustainable use of Biodiversity



Ecoreserves Network

Ecopetrol Business Group

Methodological Route

Selection of areas o Areas selection

2019-2020

- Identify, assess and classify areas
- Presentation to managers of the Ecoreserves possibilities
- Selection of six pilot areas for Ecoreserves

Biodiversity Characterization and Formulated Management Plans

2021

- ¿What to conserve?
Biodiversity Characterization
- ¿Where to conserve?
Mapping
- ¿How to conserve?
Strategies and Activities
- ¿With whom to conserve?
Governance
- ¿Which resources?
Sustainability

Consolidation of the Network

2022

- Knowledge transfer
- Articulation of actions and actors
- Identification of business models
- Enhance landscape connectivity
- Ecoreserves positioning

Business Group Goals

Short Term - 2021

15 Ecoreserves

Medium Term - 2023

20 Ecoreserves

LongTerm - 2030

50 Ecoreserves

Ecoreserves Network

Ecoreserves Criteria

- Management and planning criteria
- Criteria on biodiversity, ecosystem services (threats, connectivity, risk management)
- Socioeconomic and cultural criteria

Filter	# of non-operating properties of Ecopetrol	Ha
Sampling Universe	1,130	29.995
1st Phase: Prioritization with coarse filter criteria	569	12.937
2nd Phase: Prioritization with fine filter criteria	49	11.030
3rd Phase: Ecoreserves agreed between ECP and the Humboldt	2	6.090
Pilot Ecoreserves	6	11.987*

There are nine (9) additional potential properties to be included in the exercise with the Humboldt Institute



6 Pilot Ecoreserves FIBRAS Strategy

45 properties prioritized to be Ecoreserves

Total: 51 Ecopetrol's properties

Ecoreserve escenarios

Differentiated planning according to your conditions



Total: 11.906,5 Ha

¿How they Impact?

- **Coexistence** of oil activity with conservation.
- Alignment with **OECD initiatives and post-2020 CBD targets**.
- Fulfillment of the SDGs, the Paris Agreement, the Aichi Targets, the Post-2020 **Global Framework, the Planting of 180 Million trees**.
- Encourages **sectoral co-responsibility** in conservation.
- Self-Sustainable agenda based on **Bioeconomy, Biosolutions and Green Businesses** / "Conserve producing and produce conserving"
- New strategies for Decarbonization of the operation, with an estimated capture potential of 139 thousand Tons of CO2 in the **1.130 properties that make up the ECOPETROL Eco-Reserves Network**.
- They generate opportunities for self-sufficiency in **environmental management** based on the conservation and sustainable use of biodiversity.
- Strengthens comprehensive compensation strategies for **strategic ecosystems**.
- Strengthen Ecopetrol's **TESG** materiality by supporting compliance with the **SusTECHnability Strategy**.

Self-sustainability in the Management of the Environment

Local opportunities based on natural capital with Global Impact



Opportunities

Business Conservation Areas

Planning of
productive
sectors based on
biodiversity

Strategy based on OECM (CDB):

- Identification and categorization of private properties
- Resilience
- Monitoring
- Sustainable Uses
- Bioeconomy, Biosolutions and Green Businesses
- Communications

Management
plans for OECM
with private
governance

Local information for
decision making

- OECM with private governance with management plans

Ecosystem
services
and Strategic
Ecosystems

- Private conservation of biodiversity
- Conservation and restoration with a business vision
- Strategic Ecosystems preserved

OECM as
connectivity
strategies for the
NPAIS (SINAP)

- Incorporation of the OECM into connectivity strategies
- Private governmental and international biodiversity commitments

New relationship
model based on
biodiversity

- Alliances of self-sustaining local models.
- Sustainable development opportunities for local communities seeking their well-being and self-sufficiency.
- Local dialogue with a market vision based on scientific research



Thanks



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