



SUSTAINABLE
BUSINESS
COP30

Nature-based Solutions Working Group

Booklet of Cases

OCTOBER 2025

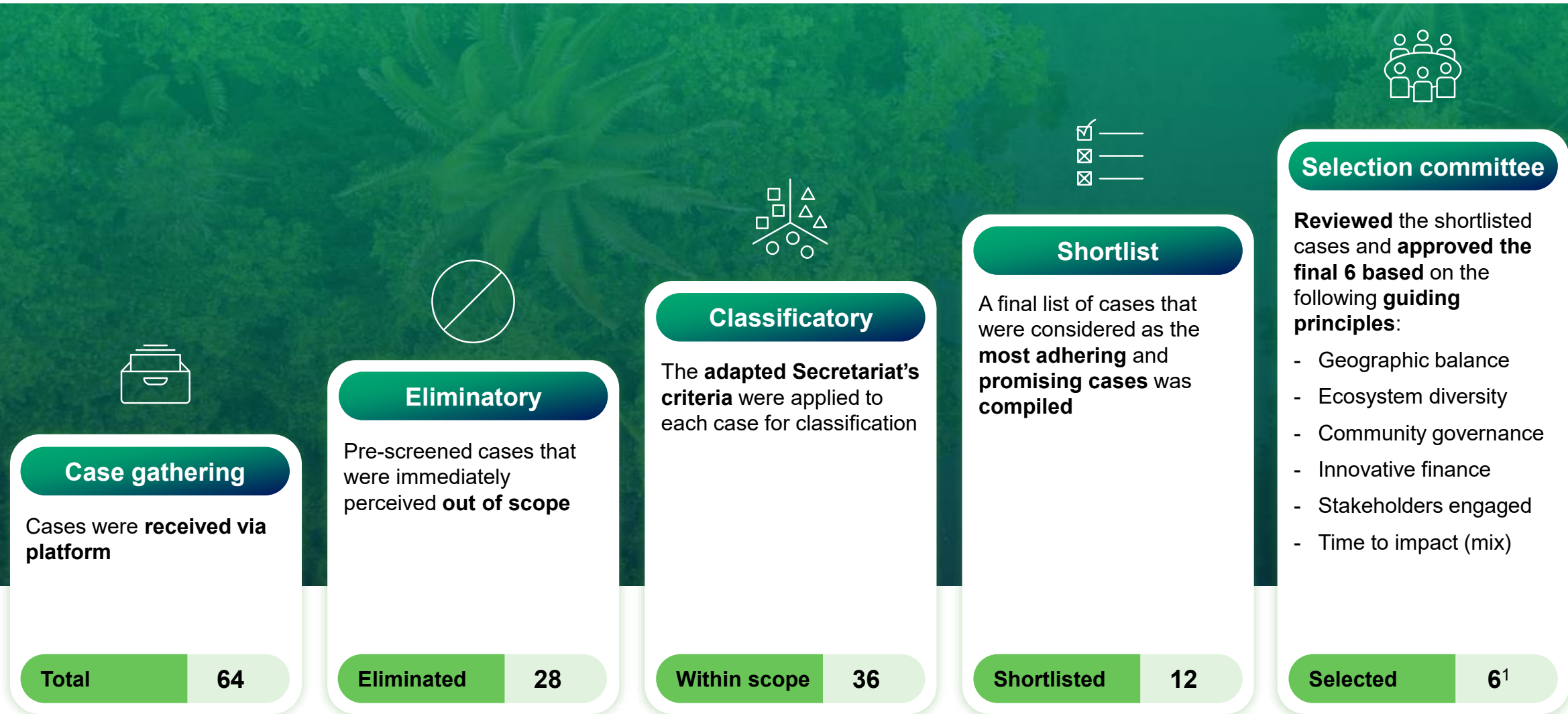


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Introduction & Methodology



64 cases were received through the platform and went through a classification process, resulting in 6 shortlisted cases



Note: 1. For practical purposes, two of the shortlisted cases were integrated under the same archetype and considered as a single case.



Evaluation framework proposed by the Secretariat for case selection



Scalable Emission Reduction

Contribute to emissions reductions and to achieve goals of Paris Agreement when adopted by multiple companies

1

Minimal or uncertain emissions impact, with limited alignment to Paris Agreement goals

2

Contributes to emissions reductions but faces scalability or impact limitations

3

Significantly reduces emissions and supports Paris Agreement goals when widely adopted



Short-to-Medium Term Achievable

Deliver impact within 5 years

1

Over 5 years to achieve impact

2

Up to 5 years to achieve impact

3

Up to 3 years to achieve impact



Economic Impact

Demonstrate returns and/or affordable implementation costs

1

Lacks proven financial returns, with high or unsustainable costs, making economic feasibility uncertain and requiring significant adjustments

2

Shows potential for returns, but they are unproven; costs are reasonable but may need optimization for sustainability

3

Clear and proven financial returns, with implementation costs that are both affordable and sustainable



Innovative

Close existing implementation gap, or introduce a pioneering approach

1

Fails to close existing implementation gaps and lacks originality, offering little to no pioneering value

2

Addresses some implementation gaps or incorporates innovative elements, but the approach is not entirely novel or transformative

3

Closes significant implementation gaps or introduces a groundbreaking, pioneering approach that sets a new standard in the field



Aligned with SB COP positioning

Contribute to SB COP priorities implementation

1

Presents arguments that contradict the priorities of the working group or fails to address any of its priorities

2

Addresses at least one of the working group's priorities and does not contradict them

3

Addresses multiple priorities of the working group and does not contradict them





To tailor the process to NbS, the Working Group adapted some of the criteria

1 Eliminary



Aligned with SB COP positioning

Contextualization for NbS initiatives

Cases that are **within the defined scope** and illustrate the **priorities defined by the NbS Working Group**

2 Classificatory



Scalable Emission Reduction

Cases that use of internationally **recognized protocols and registries**

- **Conservation/Management:** shows **quantified** emissions reductions or avoidance
- **Reforestation/Afforestation:** shows **quantified or expected** emissions reductions



Economic Impact

Demonstrate **solid business case** with overall **project financial results** (e.g. total investment, cost per ton, IRR)

Additional factors, such as **community benefits** and **biodiversity benefits** are also considered as key differentiators



Short-to-Medium Term Achievable

- **Conservation/Management:** short-to-medium term achievability
- **Reforestation/Afforestation:** decade timeframe, with first results within 3-5 years



Innovative

Demonstrate innovation in at least one aspect versus mainstream NbS projects. E.g., **novel financial arrangements for NbS funding**

Other considerations



Enough data and details were submitted to enable the assessment of against the criteria



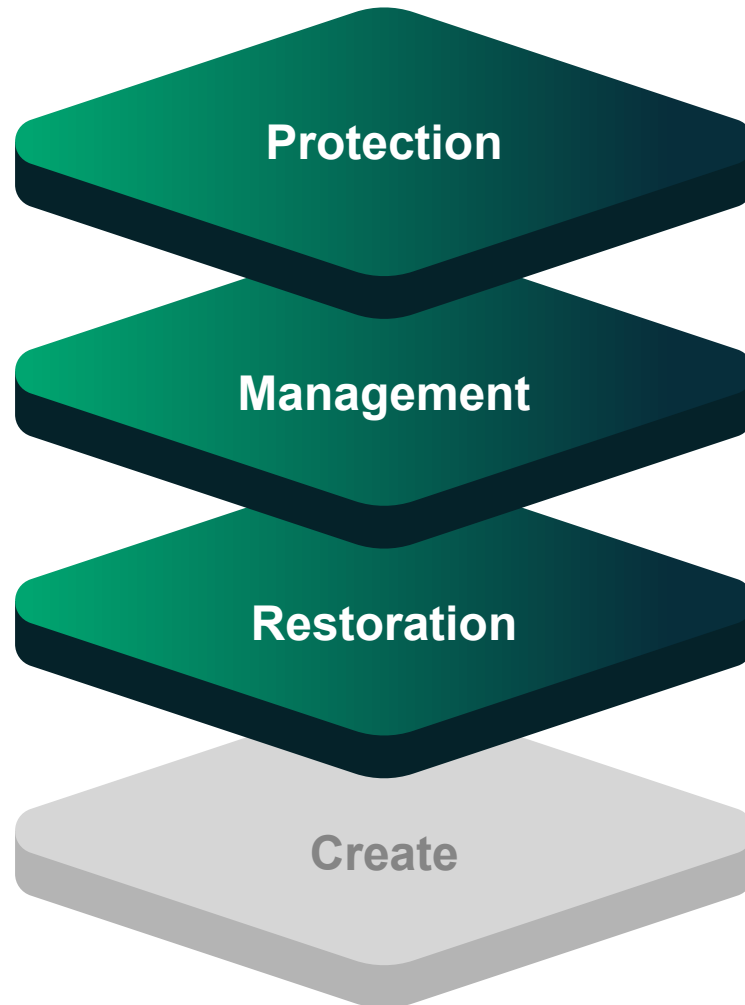
The company is **willing to share data and results** with the WG and potentially more broadly, later on



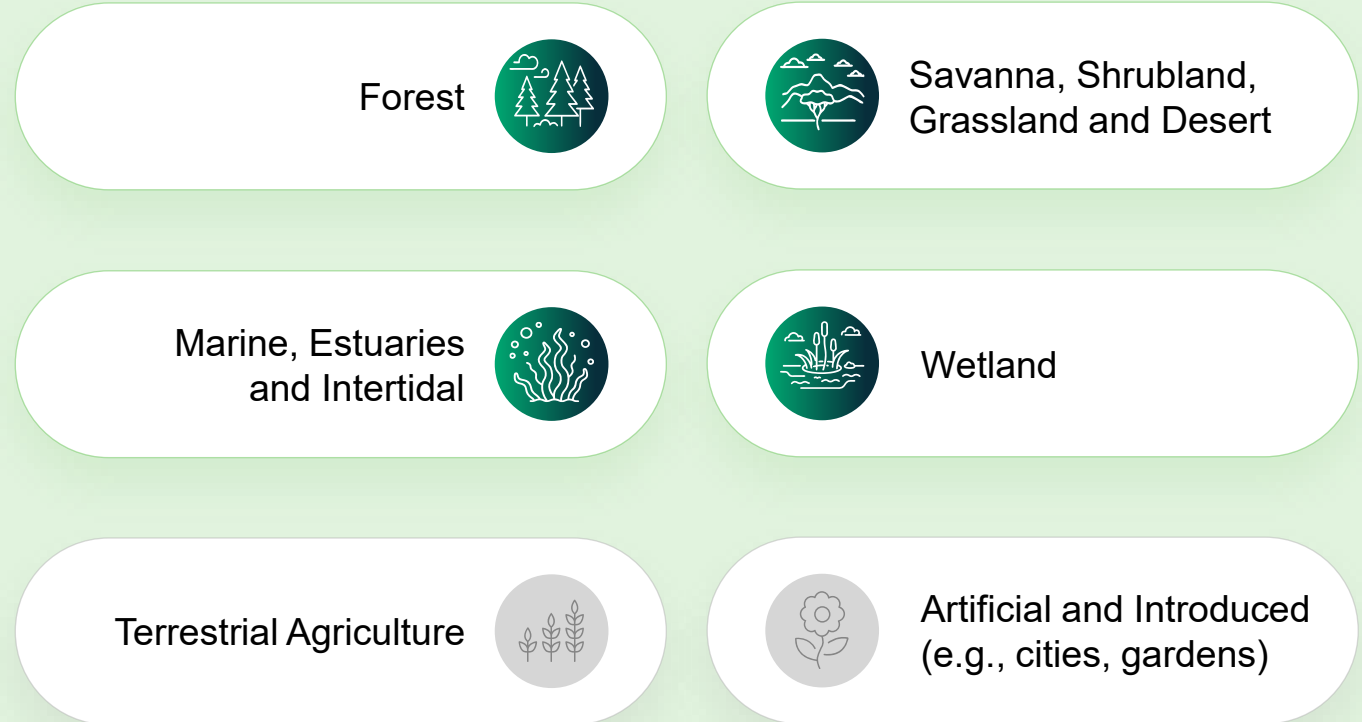
Nature-based Solutions (NbS) working group scope



Interventions



Habitats



● In scope ● Out of scope

Note on restoration interventions: *Focus of this working group is on ecological restoration, and interventions will also be considered restoration when forests previously existed on the land, regardless of how long ago degradation occurred.*





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Portfolio of Cases

Awards

The 6 most voted cases were selected



Key



	Case name	Company	Region	Reason for selection
Conservation	Improved Forest Management	Carbon Direct	Mexico	Represents a strong, scalable model rooted in community governance and benefit-sharing ;
	Legado das Águas	Reservas Votorantim	Brazil	Strong demonstration of science-based regionalized MRV , ecosystem services valuation, and a mature business case
Restoration	Non-recourse project finance	Chestnut	United States	Innovative financial structuring for nature-based solutions, fully reliant on private capital; carried out in temperate zone
	End-to-end ecological restoration business models	re.green + Biomas	Brazil	End-to-end developers showcasing different business models and funding approaches to deliver science-based, large-scale ecological restoration;
	Miombo Restoration Alliance	Trafigura	Malawi + 3 other African countries	Africa representation, showcasing blended finance platform, multi-country coordination, and large-scale ambition
	Delta Blue Carbon	PPP between Sindh Forest Department & Indus Delta Capital (Submitted by Trafigura)	Pakistan	Flagship blue carbon case with unmatched scale of mangrove area already restored and maturity



Scaling Community Forest Management, Bioeconomies, and Carbon Removal in Mexico | Carbon Direct

Nature-based Solutions case selection



**Activity
Management**



**Habitat
Forest**



**Value chain position
Supply**

**North and Central
Americas
Mexico**



► Overview



Case objectives

Scale high-quality carbon removal through community-led improved forest management (IFM), channeling carbon finance into rural bioeconomies, biodiversity protection, and inclusive development



Institutions Involved

Carbon Direct; Ejidos Petcacab, Polinkín, Salto de Camellones, Catedral, Redondeados; Bioforestal; BRET Consultores



WG Alignment

Improved Forest Management; carbon removal; biodiversity co-benefits; community engagement

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Carbon market stagnation



Scalability

Currently 5 projects covering 149,000+ ha, scaling via replication with new ejidos

► Impact



Innovative Drive

Community-led land governance offering long-term management of natural resources and carbon outcomes that also deliver biodiversity and health co-benefits



Economic Impact

70% of carbon revenues reinvested in local priorities such as schools, water systems



CO2 Impact

40.8 million credits expected over project lifetime, with 1.7 million already issued. Verified removal credits under the Climate Action Reserve



External Links: <https://www.carbon-direct.com/insights/the-role-of-improved-forest-management-for-carbon-dioxide-removal>

Legado das Águas | Reservas Votorantim

Nature-based Solutions case selection



Activity
Protection



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

Prove that conservation, sustainable resource use, and revenue generation can coexist. Implement multiple-use land management with research, community engagement, and green economy business models



Institutions Involved

Legado das Águas



WG Alignment

Biodiversity, sustainable land use, green economy, community engagement

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Market volatility for carbon credits; wildfires and climate pressures; balancing economic returns with long-term conservation goals



Scalability

31,000 ha protected (75% advanced conservation). Model replicated across biomes with potential for expansion with 43 scientific projects developed in the area

► Impact



Innovative Drive

Biome-specific carbon methodology (PSA Carbonflor) issuing credits that integrate biodiversity and social safeguards. Multi-use land management combining restoration, conservation, and business models



Economic Impact

Activities are financed under an impact × return × investment matrix, where more profitable activities offset less profitable ones to ensure balance and long-term sustainability



CO2 Impact

Expected 1.7M credits over 100 years. 93,000 C+ credits already issued



External Links: <https://www.reservasvotorantim.com.br/legado-das-aguas/>

Non-recourse Project Finance Credit Facility for NbS | Chestnut Carbon

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Financing instruments

**North and Central
Americas
USA**



► Overview



Case objectives

Structure the first non-recourse project finance deal applied to a nature-based solution, enabling afforestation activities in the U.S. under a 25-year offtake contract with Microsoft to purchase carbon removal credits



Institutions Involved

Chestnut Carbon; Microsoft; JP Morgan; CoBank; Bank of Montreal; East West Bank; ERM; Marsh; McDermott Will & Emery; Milbank



WG Alignment

Carbon markets; blended finance; corporate offtake

► Case maturity



Case Stage

Under implementation



Risk Involved

Climate/environmental risk; market demand risk



Scalability

\$210M non-recourse facility to acquire land and implement ~25,000 hectares across 8–9 U.S. states in ~75 parcels

► Impact



Innovative Drive

First non-recourse project finance applied to NbS, fully reliant on private sector capital and demonstrating market-driven restoration



Economic Impact

Unlocks \$210M private capital for afforestation, enabling long-term credit issuance under Gold Standard



CO2 Impact

Projected removal of 7.4 MtCO₂e over 25 years from afforestation projects, with credit issuance expected starting in 2029



External Links: <https://www.prnewswire.com/news-releases/chestnut-carbon-inks-deal-with-microsoft-for-groundbreaking-new-carbon-removal-project-302363922.html>

End-to-end Ecological Restoration Business Models | re.green + Biomass

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

re.green and Biomass operate as end-to-end players in Brazil's carbon removal sector. Both integrate land access, project development, restoration implementation, and carbon certification, but pursue distinct pathways to achieve scale. Together, they illustrate complementary pathways to make large-scale restoration investable and replicable



Institutions Involved

re.green; Biomass; IFC; S&P Global



WG Alignment

Carbon markets; restoration; MRV; corporate demand; blended finance

► Case maturity



Case Stage

 Under implementation



Risk Involved

Investor appetite; carbon market volatility; land acquisition risks; regulatory uncertainty; restoration operational risks



Scalability

Models under implementation with potential to scale to millions of hectares: re.green (~38.4k ha to be restored) and Biomass (~2M ha to be restored)

► Impact



Innovative Drive

Two complementary models: Biomass with corporate governance and capital structuring, and re.green integrating carbon and timber revenues to enable projects



Economic Impact

Mobilizes investment, generates rural jobs, and supports restoration supply chains



CO2 Impact

Biomass: ~500k tCO₂ expected
re.green: ~7.4M tCO₂ expected



External Links: <https://re.green/en/>; <https://www.biomass.com/mucununga>

Miombo Restoration Alliance | Trafigura

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Supply

Africa
Malawi + 3 other
African countries



► Overview



Case objectives

Multi-country alliance across 11 African nations to restore the Miombo woodlands through blended finance. Projects structured to deliver Article 6-compliant carbon credits, with ~420,000 ha of planned restoration and ~500,000 ha of voluntary conservation. Alliance integrates corporate-backed governance, technical assurance, and transparent community payments



Institutions Involved

Trafigura, IFC, ICCF Group, Conservation International, Carbon Direct, Terraspect, ministries of Zambia, Malawi, Mozambique; Others



WG Alignment

Carbon markets; Article 6; blended finance; community engagement

► Case maturity



Case Stage

Implemented
generating first results



Risk Involved

Nursery supply chains; seedling survival; droughts/natural disasters; Article 6 policy delays; project execution



Scalability

Scalable across 11 African states. First pilots cover 420,000 ha restoration and 500,000 ha of planned voluntary conservation (no carbon crediting)

► Impact



Innovative Drive

First multi-country, Article 6-aligned restoration framework. Incorporates mobile community payment systems (Terraspect) and corporate-backed governance anchored by Trafigura as offtaker



Economic Impact

Sustained through blended finance and long-term carbon offtakes, with revenues from Article 6 carbon credits and agroforestry income shared with local communities



CO2 Impact

40 MtCO₂ expected removals over 20 years across projects, verified under Verra VM0047 with CCB and ABACUS co-benefit standards



External Links: <https://www.trafigura.com/news-and-insights/press-releases/2024/pan-africa-miombo-initiative-welcomes-expert-partners-to-drive-native-species-restoration-at-scale-for-article-6/>

Delta Blue Carbon | Trafigura & Indus Delta Capital

Nature-based Solutions case selection



Activity
Restoration



Habitat
Marine, Estuaries
and Intertidal



Value chain position
Supply

**Asia / Oceania
Pakistan**



► Overview



Case objectives

Restore over 225,000 hectares of mangroves in Pakistan's Indus Delta through a public-private partnership. Combine large-scale ecological restoration with climate mitigation, biodiversity enhancement, and community development. Ensure Article 6 alignment and generate high-integrity blue carbon credits to support long-term resilience



Institutions Involved

Sindh Forest Department; Indus Delta Capital; Trafigura; Microsoft; Carbon Growth Partners; Silvestrum Climate Associates; Inverto Earth



WG Alignment

Carbon markets; MRV; Article 6 alignment; community engagement

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Severe cyclones and coastal erosion; sea-level rise and salinity intrusion; reduced freshwater flows; policy or governance changes



Scalability

Largest mangrove restoration project globally. Public-private structure with government support and international buyers makes the model replicable

► Impact



Innovative Drive

First-of-its-kind at this scale, combining PPP with international buyers, Tier-3 digital MRV, and direct community engagement and advancing and refining Verra's VM0033 mangrove methodology



Economic Impact

Strengthens local livelihoods through community revenue-sharing (60% private, 40% government reinvested in social programs), generates rural jobs, and supports long-term economic inclusion



CO2 Impact

~142 million tCO₂ expected over 60 years; ~5.4 million tCO₂ already removed to date



External Links: <https://www.trafigura.com/press/trafigura-carbon-of-take-delta-blue-carbon>



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Portfolio of Cases

List of cases for the Nature-based Solutions Working Group

(1/3)



Activity type	Habitat	Value chain position	Region	Company	Case name
Protection 	Forest	Supply	South America	Petrobras	Transforming Biomes and Communities for a Sustainable Future: Petrobras Forest Initiative
				Suzano S.A.	Connecting Half a Million Hectares of Priority Areas for Biodiversity Conservation in the Amazon, Cerrado and Atlantic Forest
				Vale - Fundo Vale	Vale Forest Goal 2030
				Institution Natura	Circular Carbon – RECA
		Trading & Measurement	South America	Sylvera	Multi-scale Lidar Carbon Quantification for Enhanced JREDD Verification in the Brazilian Jurisdiction of Acre
	Savanna, Shrubland, Grassland and Desert	Supply	South America	Reservas Votorantim	Legado Verdes do Cerrado (LVC)
	Wetland		Asia / Oceania	PT Mohairson Pawan Khatulistiwa	Mayas Project
Management	Forest	Supply	South America	Agrocortex	Agrocortex Nature-Based Business Case for the Amazon



List of cases for the Nature-based Solutions Working Group

(2/3)



Activity type

Habitat

Value chain position

Region

Company

Case name

Restoration



Forest

Supply

South America

Vale

Floresta Viva

Acelen Renewables

180k ha recovery of degraded land through Macauba cultivation to develop sustainable low-carbon solutions for transportation (SAF/HVO) and others

Santander

Scale finance to restore Brazil's native forests

Asia / Oceania

CESC Limited

Miyawaki Forestation – Carbon Sequestration in Industrial Landscapes

South America

3-4 Cities

Online Platform for Carbon Offsetting in Civil Construction

Carbon Free Brasil

Carbon Free Brasil: Technology-Driven Emissions Management with Scalable Climate Results

Global

Instituto Tecnológico Vale

Towards No Net Loss and Nature Positive: A Scalable Method to Quantify Biodiversity Impacts in Tropical Landscapes

South America

Solvay

Carbon Neutral Portfolio through Carbon Emission Reduction and Offset of Remaining Emissions

Global

CarbonClick

One Click for Climate: Scalable Offsetting for Global Impact

Google

Nature-based Solutions

Financing instruments

Global

Terrasos

Habitat Banks Driving Private Sector Investment in Nature-based Solutions



List of cases for the Nature-based Solutions Working Group

(3/3)



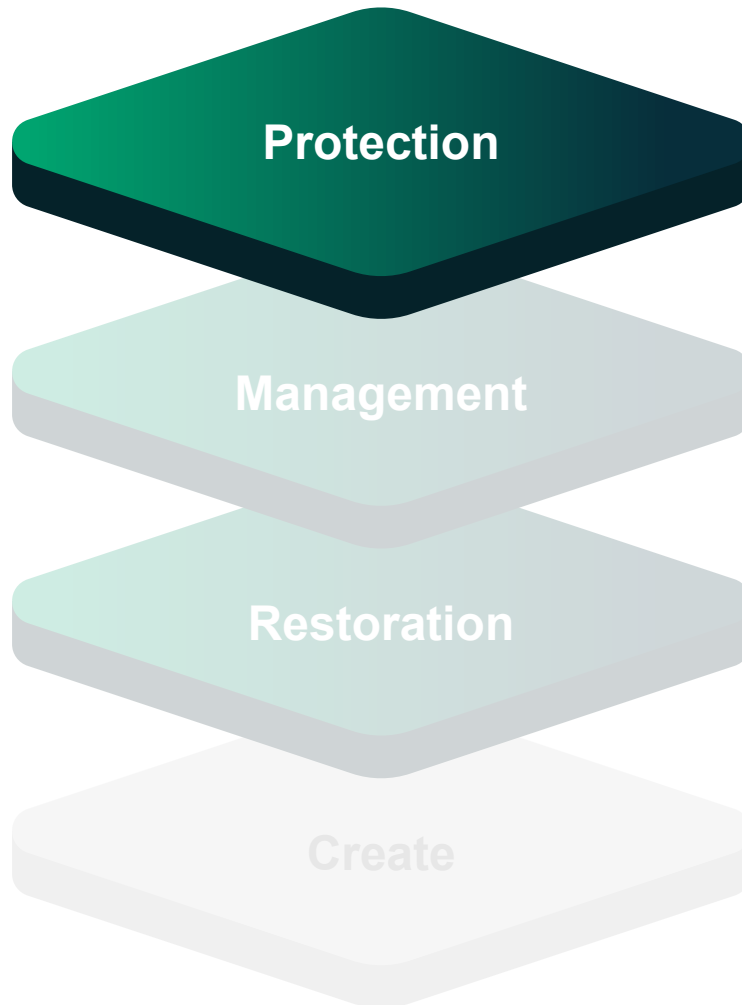
Activity type	Habitat	Value chain position	Region	Company	Case name
Restoration 	Forest	Financing instruments	South America	Latimpacto	Green Catalytic Fund
				Columbia University	Case Studies on Blended Finance and Sustainable Investing in Brazil
				IWA Gestão de Recursos Ltda	Environmental Compensations Credit Fund
	Marine, Estuaries and Intertidal	Supply	South America	Nosso Mangue	Carbono Azul
		Trading & Measurement	South America	OceanPact Maritime Services	MangueLab
	Wetland	Supply	Europe	Laflora	Extracted Kaigu peatland restoration process for implementation of paludiculture and carbon certification



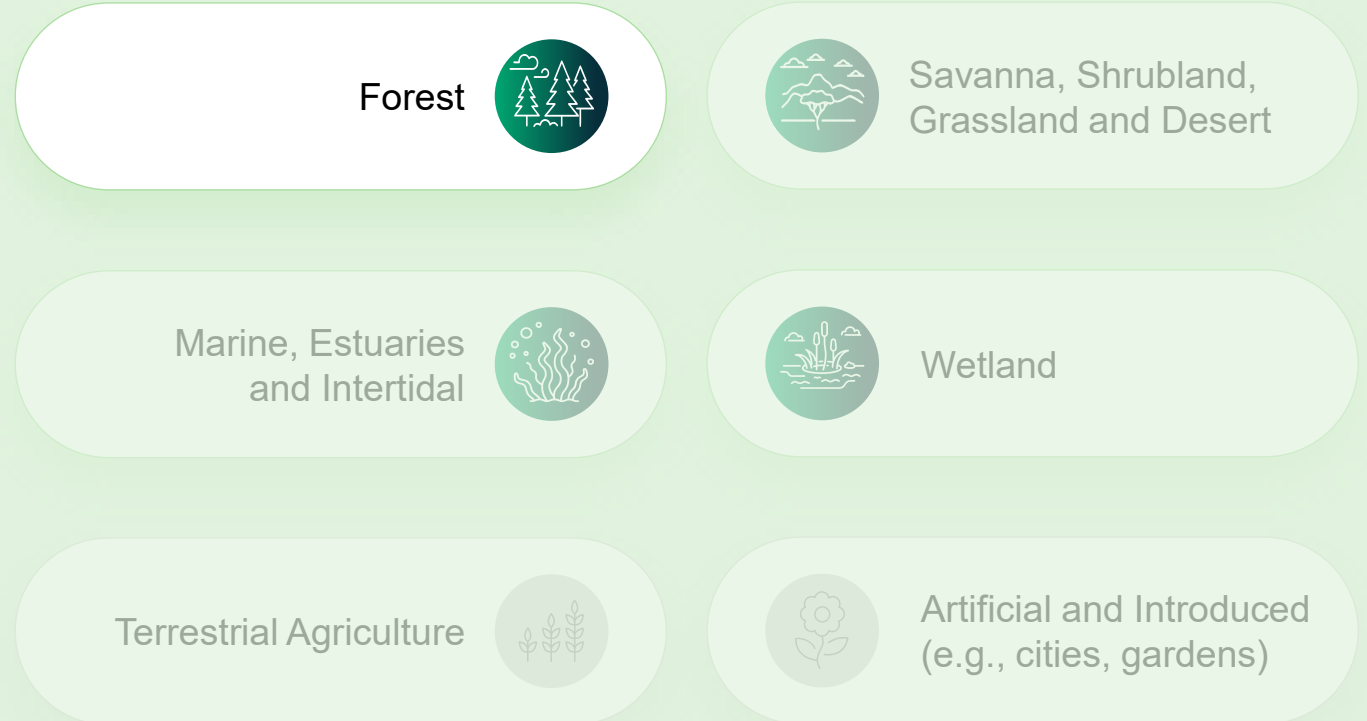
Nature-based Solutions (NbS) working group scope



Interventions



Habitats



● In scope ● Out of scope

Note on restoration interventions: *Focus of this working group is on ecological restoration, and interventions will also be considered restoration when forests previously existed on the land, regardless of how long ago degradation occurred.*



Transforming Biomes and Communities for a Sustainable Future: Petrobras Forest Initiative | Petrobras

Nature-based Solutions case selection



Activity
Protection



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

The Forest Initiative is a voluntary investment program carried out in partnership with NGOs, which directly addresses the global challenge of reducing social inequalities and combating climate change



Institutions Involved

Petrobras; Ecoporé; AGEVAP; AS-PTA; Associação Caatinga; Associação Mata Ciliar; and multiple other NGOs and local organizations



WG Alignment

Blended finance; biodiversity protection

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Climate change and extreme events; low community participation; land tenure insecurity; land-use conflicts



Scalability

The replication of the project model by various companies has the potential to generate a significant positive impact on avoided emissions

► Impact



Innovative Drive

The Program drives innovation by supporting the development of social technologies, combining traditional knowledge, sustainable practices, income generation, and replicable solutions



Economic Impact

Mobilizes catalytic capital for NbS, strengthening local green economies and de-risking early-stage solutions



CO2 Impact

3 million tons of CO2 is the potential for net removal and avoided emissions from the ongoing projects in the year 2024



External Links: <https://sustentabilidade.petrobras.com.br/en-US/#>

Connecting Half a Million Hectares of Priority Areas for Biodiversity Conservation in the Amazon, Cerrado and Atlantic Forest | Suzano S.A.

Nature-based Solutions case selection



Activity
Protection



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

Suzano has committed to connecting 500,000 hectares of priority conservation fragments by 2030, addressing biodiversity loss while promoting large-scale ecological restoration



Institutions Involved

Suzano S.A.



WG Alignment

Biodiversity conservation

► Case maturity



Case Stage

 Under implementation



Risk Involved

Engagement of third-party landowners; deforestation pressures; fire risks in targeted biomes



Scalability

The project spans across three major Brazilian biomes and extends beyond Suzano's own lands. It creates a replicable model of corporate–community partnership for biodiversity corridors

► Impact



Innovative Drive

Supported 56 families in seed collection and processing, lifting 116 people out of poverty, and contracted 30 indigenous families for restoration in the Atlantic Forest. It has also generated income for community suppliers through the acquisition of native seeds



Economic Impact

To date, 42,226 seedlings have been planted across 50 hectares. The project is expected to scale removals significantly as restoration advances



CO2 Impact

The corridors promotes the growth of native vegetation, which remove carbon from the atmosphere



External Links: <https://centraldesustentabilidade.suzano.com.br/sustentabilidade-na-suzano/compromissos-para-renovar-a-vida/conservar-a-biodiversidade/>

Vale Forest Goal 2030 | Vale – Fundo Vale

Nature-based Solutions case selection



Activity
Protection



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

Restore and protect 500,000 hectares by 2030: 100,000 ha through productive restoration systems and 400,000 ha via conservation units and REDD+ projects, to maximize climate, biodiversity, and social impact



Institutions Involved

Vale; Fundo Vale; Reserva Natural Vale; Instituto Tecnológico Vale



WG Alignment

Forest restoration; conservation

► Case maturity



Case Stage

Under implementation



Risk Involved

Ecological failure; low community engagement; funding gaps; regulatory changes; carbon monitoring and conservation partnerships challenges



Scalability

Initiative blends corporate finance and community partnerships, replicable across biomes. Combines agroforestry, silvopastoral systems, and conservation to scale restoration

► Impact



Innovative Drive

Applies productive restoration models that regenerate soil and generate income. Combines REDD+, impact businesses, and innovative blended finance tools to expand NbS investments and accelerate forest recovery



Economic Impact

Leverages blended finance and catalytic capital. Supports forest startups, ESG integration, and job creation, while building long-term financial sustainability through carbon markets



CO2 Impact

REDD+ projects generated 866,485 verified carbon units



External Links: <https://vale.com/documents/44618/429697/Relato+Integrado+Vale+2024.pdf>

Circular Carbon – RECA | Institution Natura

Nature-based Solutions case selection



Activity
Protection



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

Strengthen communities and reduce deforestation by combining payments for ecosystem services (PES), avoided emissions, and cooperative management to support sustainable livelihoods



Institutions Involved

Natura; RECA Cooperative; WayCarbon; IMAFLORA; IDESAM



WG Alignment

Forest conservation; community inclusion

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Land tenure conflicts; wildfires; market volatility for carbon credits; low community engagement; regulatory changes



Scalability

The RECA model demonstrates potential for replication in other cooperatives and regions, linking PES and carbon credits with socio-biodiversity supply chains

► Impact



Innovative Drive

Pioneers a circular insetting approach where companies directly fund PES and forest conservation inside their value chain. Integrates verified carbon methodologies with cooperative governance and smallholder inclusion



Economic Impact

Generated direct and indirect financial benefits for smallholders, improving household income stability and cooperative funds, while strengthening Natura's insetting strategy



CO2 Impact

~497k tCO₂ avoided in 10 yrs via REDD+, with PES incentives securing lasting conservation



External Links: https://2024ar.naturaeco.report/documents/11/Annual_Integrated_Report_Natura_Co_2024_vf.pdf

Multi-scale Lidar Carbon Quantification for Enhanced JREDD Verification in the Brazilian Jurisdiction of Acre | Sylvera

Nature-based Solutions case selection



Activity
Protection



Habitat
Forest



Value chain position
Trading &
measurement

South America
Brazil



► Overview



Case objectives

Partner with the State of Acre to conduct a jurisdictional lidar campaign, improving forest carbon estimates and strengthening Acre's JREDD readiness to access climate finance



Institutions Involved

Sylvera; Government of Acre



WG Alignment

High-integrity MRV

► Case maturity



Case Stage

Under implementation



Risk Involved

Not disclosed



Scalability

The approach enables carbon monitoring using Lidar and remote sensing, unlocking emissions reductions and climate finance aligned with the Paris Agreement

► Impact



Innovative Drive

First state-wide use of multi-scale lidar for forest carbon accounting. Peer-reviewed method reduces conventional estimate errors by up to 2.2×, unlocking more credible credits and investment



Economic Impact

Strengthens Acre's capacity to attract high-integrity carbon finance, improving investor confidence and supporting local green economies



CO2 Impact

Lidar shows 1.5–2.2× errors in estimates, helping Acre avoid CO₂e miscounts and boost JREDD integrity

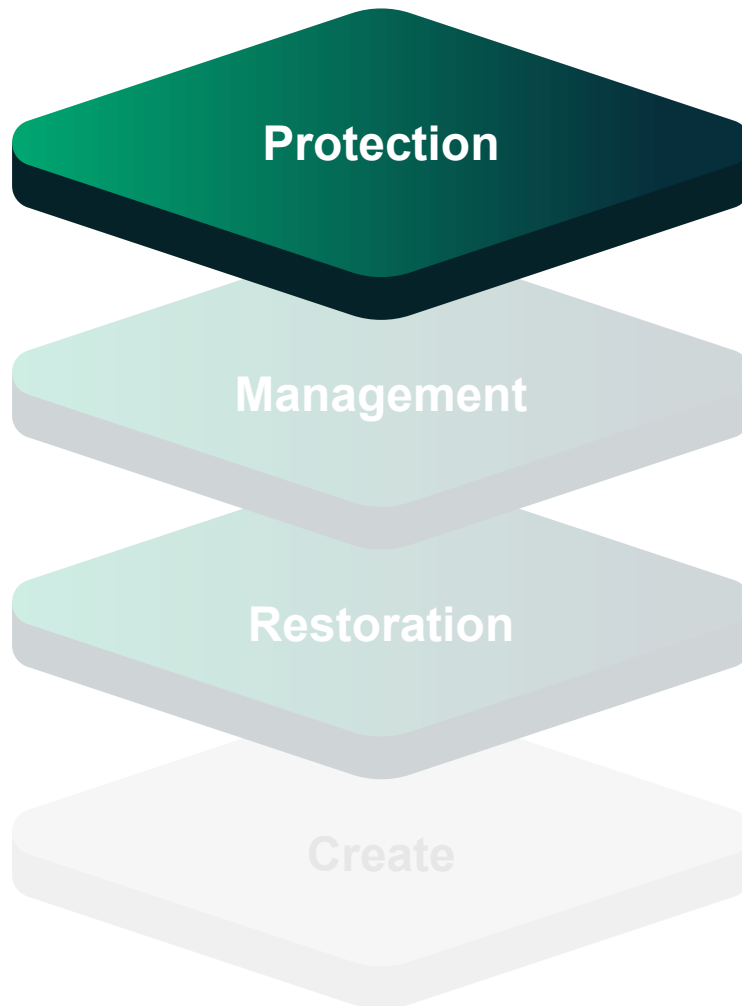


External Links: <https://www.nature.com/articles/s43247-024-01448-x>

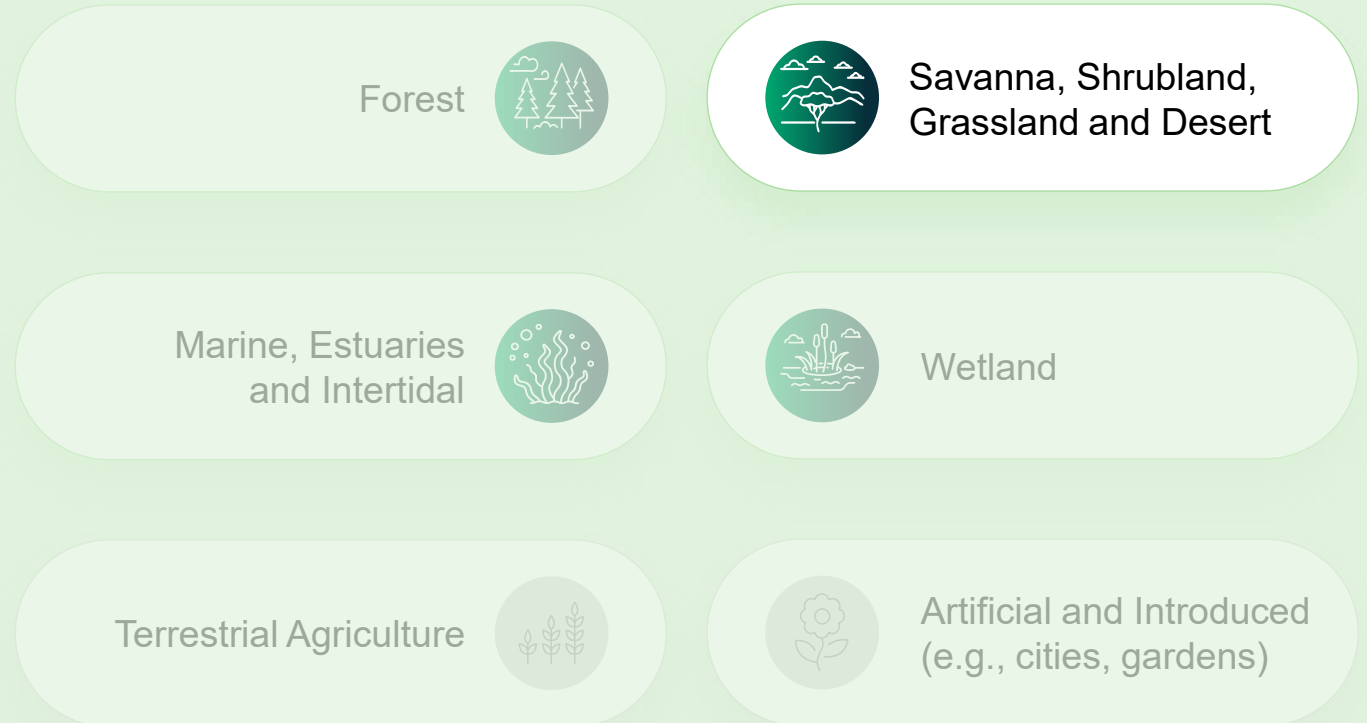
Nature-based Solutions (NbS) working group scope



Interventions



Habitats



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Legado Verdes do Cerrado | Reservas Votorantim

Nature-based Solutions case selection



Activity
Protection



Habitat
Savanna, Shrubland,
Grassland and Desert



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

Conserve 32,000 ha of Cerrado (Brazilian savannah) through an integrated model combining biodiversity protection, restoration, sustainable business, and community engagement. Area owned by CBA and managed by Reservas Votorantim



Institutions Involved

Companhia Brasileira de Alumínio (CBA); Reservas Votorantim; Ecosystem Regeneration Associates (ERA); ECCON Soluções Ambientais



WG Alignment

Forest conservation; REDD+

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Not disclosed



Scalability

The RPDS model (Private Sustainable Development Reserve) is replicable for other biomes, integrating conservation, ecological restoration, and carbon markets

► Impact



Innovative Drive

Pioneering REDD+ project in the Brazilian savannah, generating verified carbon credits; integration of biodiversity monitoring, community education, ecotourism, and agroforestry in a single management model



Economic Impact

Generates sustainable business opportunities (ecotourism, native plant production, carbon credits), driving local jobs, co-ops, and scientific partnerships while adding ESG value to CBA



CO2 Impact

Certified REDD+ project with 316,000 credits issued in the first batch (2017–2021) and a capacity of ~50,000 credits/year

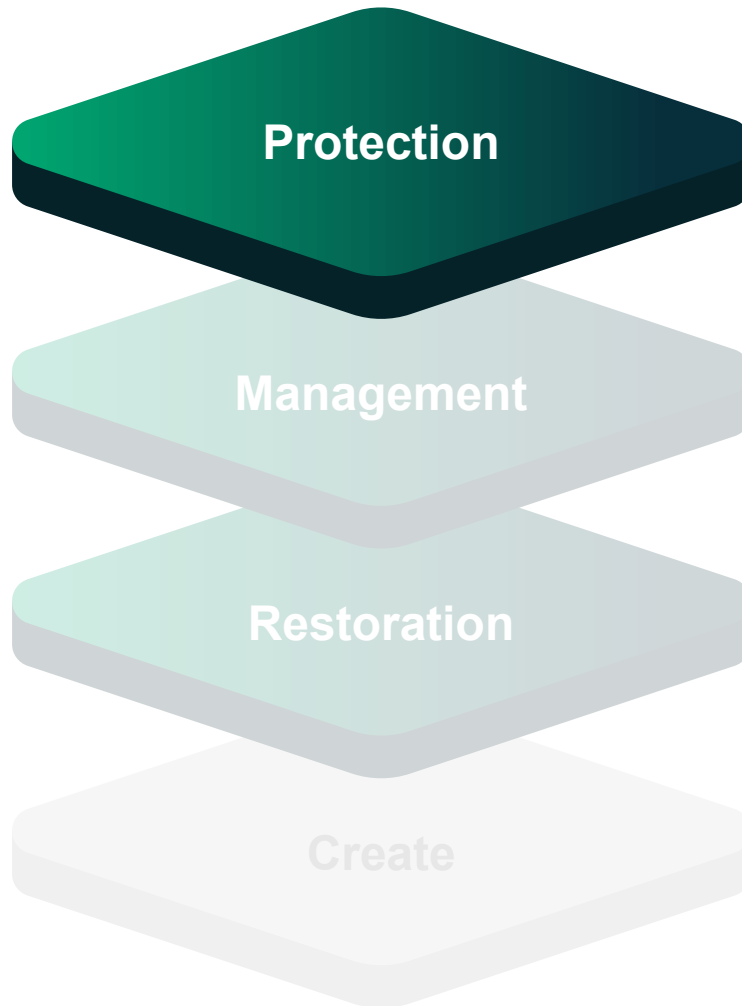


External Links: <https://www.legadoverdesdocerrado.com.br/>

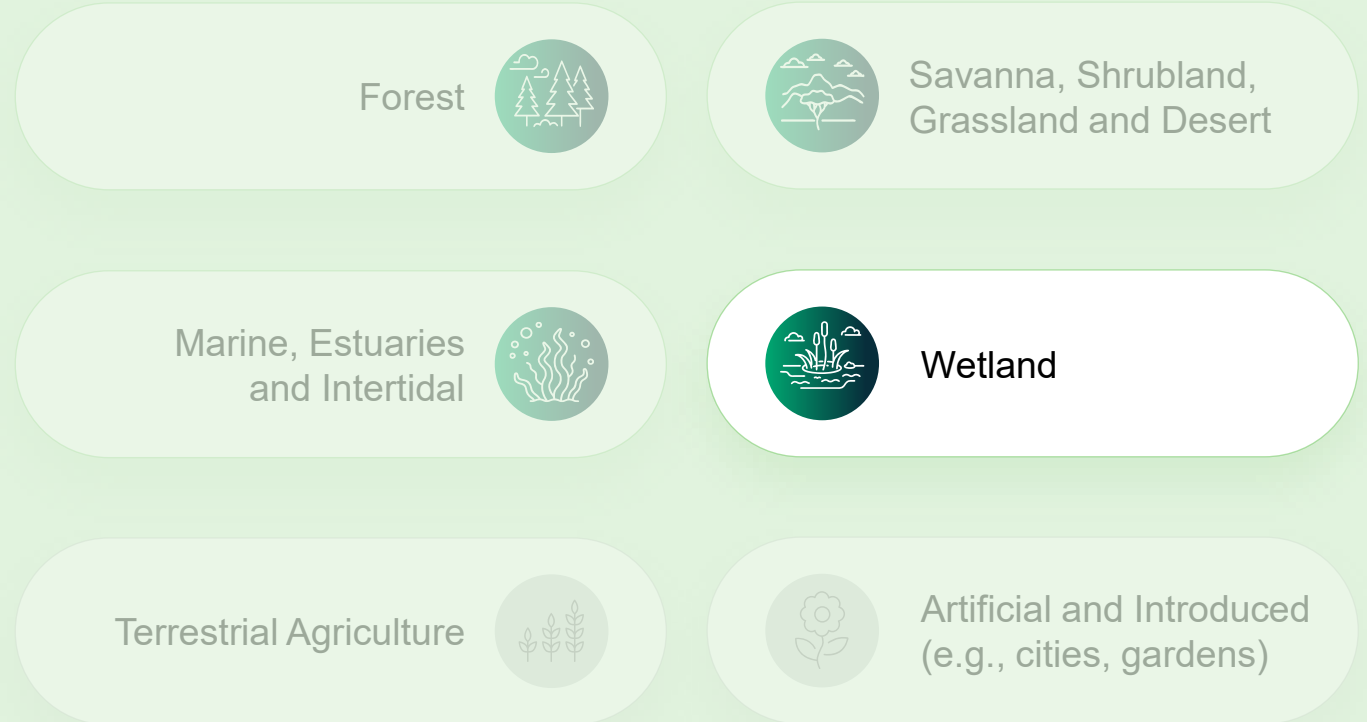
Nature-based Solutions (NbS) working group scope



Interventions



Habitats



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Mayas Project | PT Mohairson Pawan Khatulistiwa

Nature-based Solutions case selection



Activity
Protection



Habitat
Wetland



Value chain position
Supply

Asia / Oceania
Indonesia



► Overview



Case objectives

Protect 33,747 ha of peat forest in Ketapang to reduce emissions, safeguard biodiversity (including 1,200+ orangutans), and generate co-benefits for local communities under Indonesia's carbon regulations



Institutions Involved

PT Mohairson Pawan Khatulistiwa; PT Inti Alam Raharja; Yayasan Inisiasi Alam Rehabilitasi Indonesia; Karbon Natura Indonesia



WG Alignment

Land protection; biodiversity conservation; community engagement

► Case maturity



Case Stage

● Under implementation



Risk Involved

Anthropogenic fire risk linked to El Niño; regulatory uncertainty



Scalability

Applies a non-extractive land use model in peatlands, aligning climate mitigation, biodiversity protection, and social benefits under verified REDD+ frameworks

► Impact



Innovative Drive

Applies a non-extractive land use model in peatlands, aligning climate mitigation, biodiversity protection, and social benefits under verified REDD+ frameworks



Economic Impact

The project concept is economically viable providing returns aligned with sectoral norms while providing corresponding revenues to the state and economic benefit to local communities



CO2 Impact

Between 2019 and 2023, the project avoided ~12.3M tCO₂e. Over its lifetime, it is expected to avoid more than 81M tCO₂e

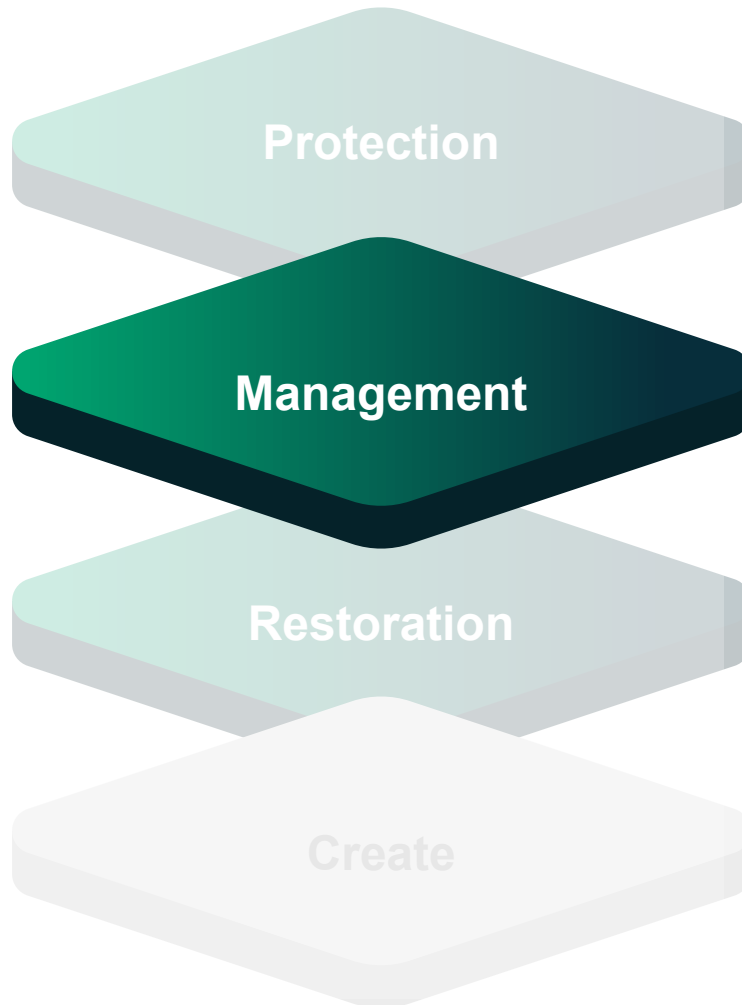


External Links: Not disclosed

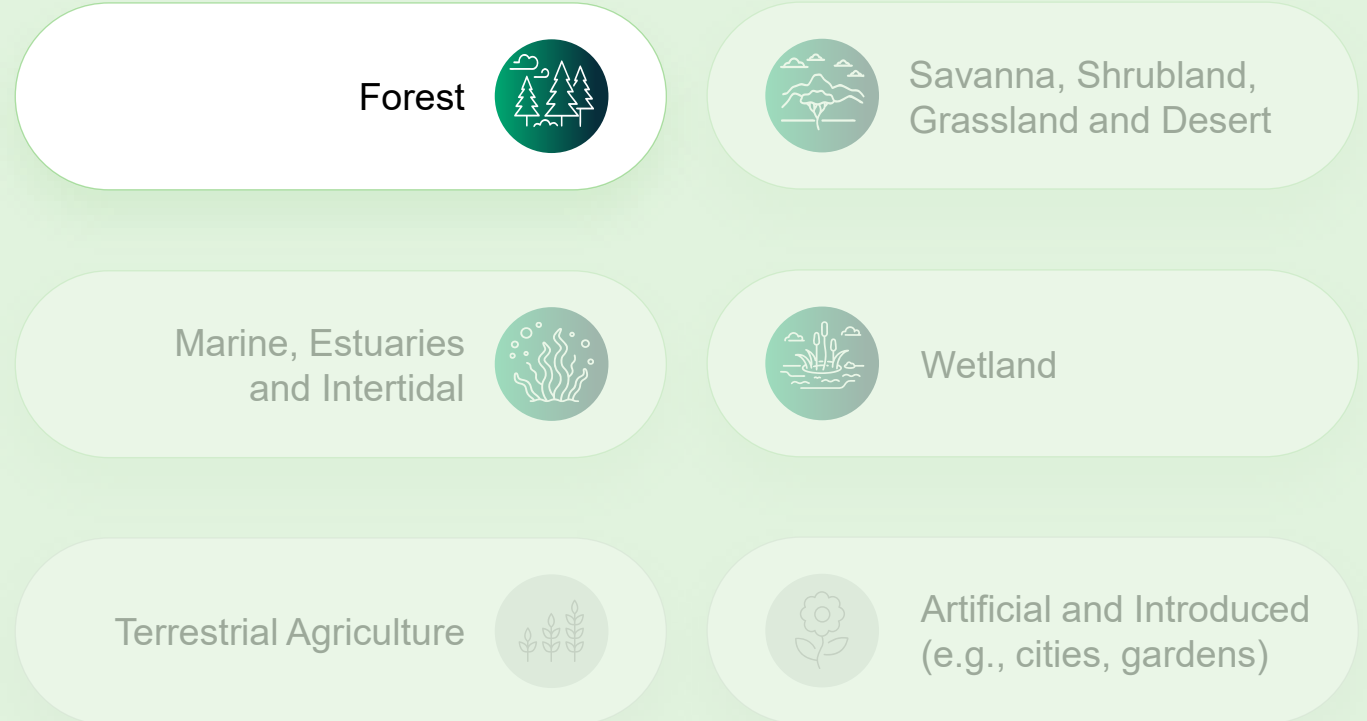
Nature-based Solutions (NbS) working group scope



Interventions



Habitats



In scope Out of scope

Note on restoration interventions: *Focus of this working group is on ecological restoration, and interventions will also be considered restoration when forests previously existed on the land, regardless of how long ago degradation occurred.*



Agrocortex Nature-Based Business Case for the Amazon | Agrocortex

Nature-based Solutions case selection



**Activity
Management**



**Habitat
Forest**



**Value chain position
Supply**

**South America
Brazil**



► Overview



Case objectives

Manage 186,000 hectares of tropical forest in Acre and Amazonas through FSC®-certified sustainable timber operations and a verified REDD+ project. The initiative aims to protect carbon stocks, conserve biodiversity, and generate socioeconomic benefits for local communities



Institutions Involved

xAgrocortex Florestas do Brasil S.A.; Forest Stewardship Council (FSC®); VERRA (VCS and SOCIALCARBON®); IBAMA (regulatory authority)



WG Alignment

REDD+; carbon markets; biodiversity conservation

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Illegal encroachment and deforestation pressures from neighboring areas; regulatory instability in Brazil's forest and environmental sector; market fluctuations impacting timber and carbon revenues



Scalability

The integrated REDD+ model is replicable in other tropical regions. It demonstrates how timber production combined with carbon crediting and community inclusion can preserve forests

► Impact



Innovative Drive

First large-scale Amazon project combining FSC®-certified forest management, VCS-verified REDD+ credits, and SOCIALCARBON® social indicators in a single model



Economic Impact

Generated over 600 direct and 3,000 indirect jobs and injected millions into the regional economy



CO2 Impact

Over 4.3 million tCO₂e avoided between 2014 and 2024 through conservation and REDD+ credits

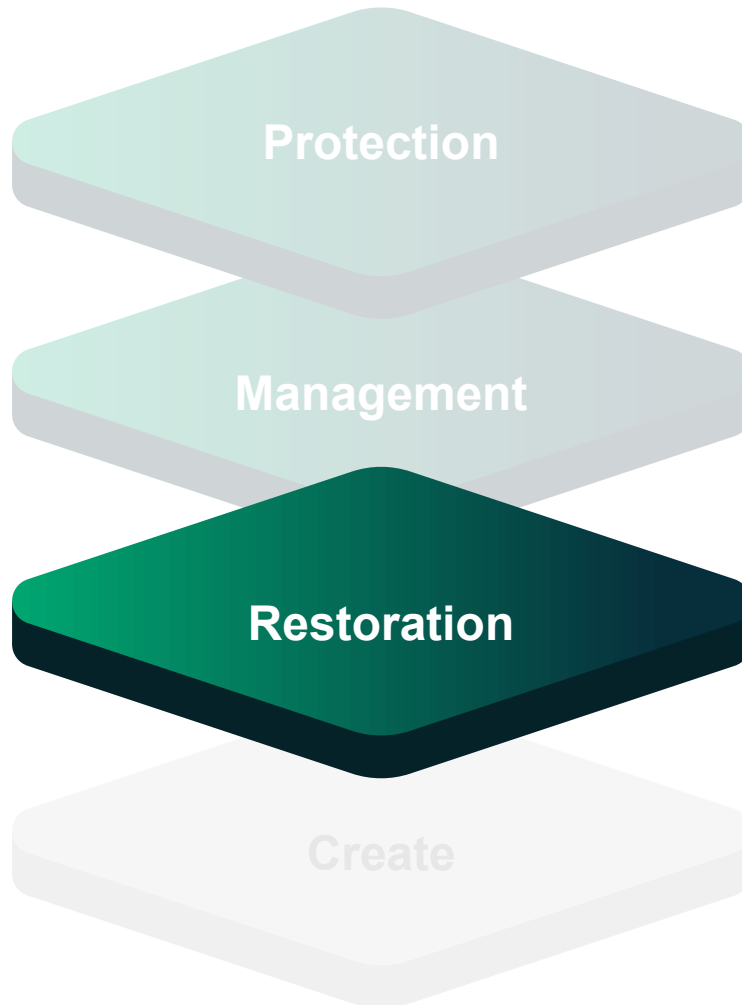


External Links: <http://www.agrocortex.com/>

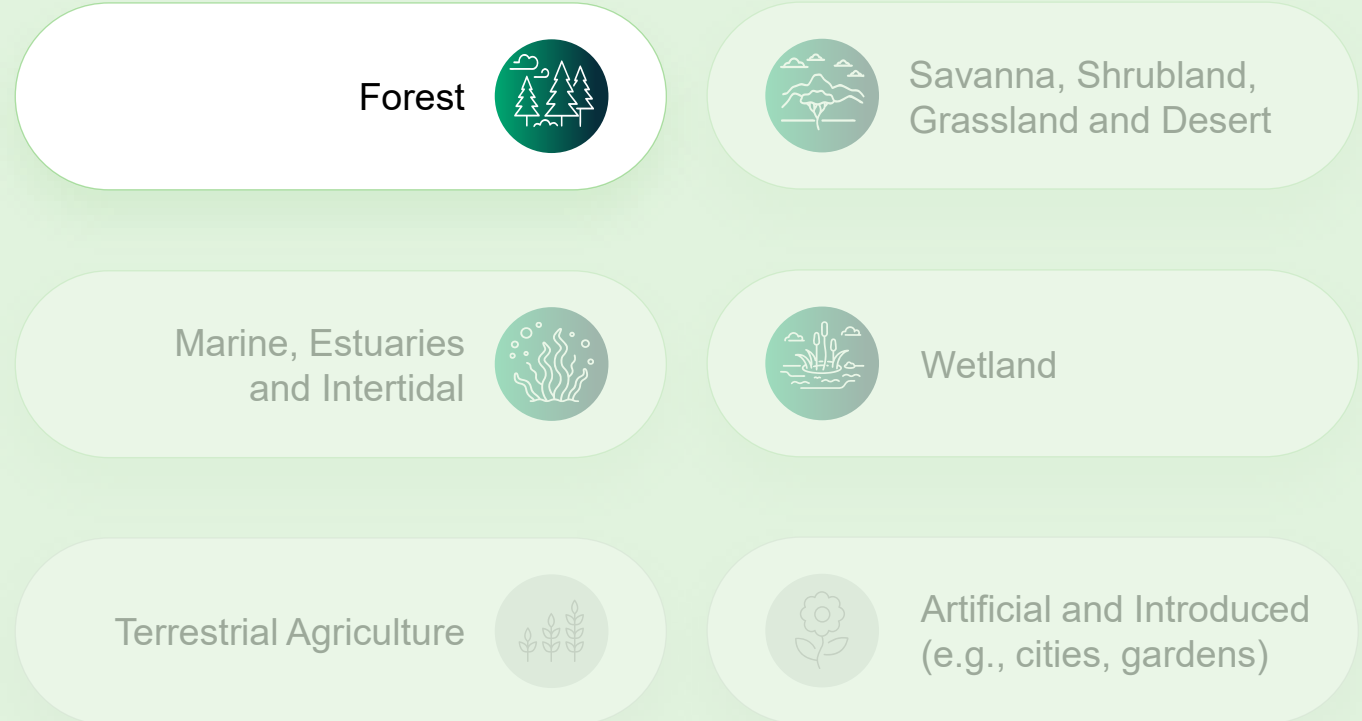
Nature-based Solutions (NbS) working group scope



Interventions



Habitats



● In scope ● Out of scope

Note on restoration interventions: *Focus of this working group is on ecological restoration, and interventions will also be considered restoration when forests previously existed on the land, regardless of how long ago degradation occurred.*



Floresta Viva | Vale

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

Implement biological and productive restoration projects in the Amazon, enhancing ecosystem services, CO₂ removal, income generation, and local job creation



Institutions Involved

Vale; BNDES (Brazilian Development Bank); Funbio; Energisa; Fundo Vale; Norte Energia



WG Alignment

Forest restoration; biodiversity; carbon credits; public-private partnerships

► Case maturity



Case Stage

Under implementation



Risk Involved

Institutional capacity gaps; land regularization issues; high deforestation pressure; limited incentives for restoration



Scalability

Floresta Viva uses a blended model (public and private co-financing) that can be replicated in other regions

► Impact



Innovative Drive

Blends biological and productive restoration, integrating community nurseries, training, and biodiversity management. Its governance involves private sector and public banks, aligning restoration with national policies



Economic Impact

Match-funding from BNDES and private sector partners reduces risks, supports forest value chains, and channels investments into restoration models



CO₂ Impact

The first 700 ha under restoration are being evaluated for high-integrity carbon credits



External Links: <https://www.bndes.gov.br/wps/portal/site/home/desenvolvimento-sustentavel/parcerias/floresta-viva>; <https://chamadas.funbio.org.br/floresta-viva-restauracao-bacia-do-rio-xingu>

180k ha recovery of degraded land through Macaúba cultivation to develop sustainable low-carbon solutions for transportation | Acelen Renewables

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

Transform degraded land into productive landscapes by cultivating Macauba, producing sustainable aviation fuel (SAF), renewable diesel (HVO), and co-products, while delivering carbon capture and socio-economic benefits



Institutions Involved

Acelen Renewables



WG Alignment

Large-scale forest restoration; community engagement

► Case maturity



Case Stage

Under implementation



Risk Involved

Policy and regulatory instability for clean fuels, generating lack of demand for clean fuels



Scalability

Plans to recover 180,000 ha with Macaúba, combining commercial farms and smallholder partnerships. The model is designed for replication in other degraded lands across Brazil

► Impact



Innovative Drive

Leverages agritech and R&D to fully utilize Macauba fruit for oil and co-products. Establishes an “Agripark” for R&D, seedling production, and partnerships, integrating sustainable agriculture with advanced biofuel production



Economic Impact

Strengthens rural economies with inclusive production chains, job creation, and ESG alignment



CO2 Impact

Potential capture of over 60 MtCO₂ with Macauba cultivation. SAF/HVO emissions reduction potential of 70–80% vs fossil fuels



External Links: <https://www.acelenrenovaveis.com.br/>

Scale finance to restore Brazil's native forests | Santander

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Supply

South America
Brazil



► Overview



Case objectives

Position the financial sector as a key enabler of large-scale forest restoration. Through participation as an anchor stakeholder in Biomass, Santander mobilizes climate finance and strengthens the restoration economy by combining capital, governance, and long-term engagement with restoration partners



Institutions Involved

Santander



WG Alignment

Carbon markets; blended finance; large scale restoration

► Case maturity



Case Stage

Under implementation



Risk Involved

Not disclosed



Scalability

Designed to restore 4 million hectares and remove up to 900 million tCO₂e in 20 years. Santander's participation signals that private banks can anchor blended finance solutions

► Impact



Innovative Drive

Pioneers large-scale restoration with native species, premium carbon credits, and blended finance tools. It combines investment and ecosystem-building to scale impact efficiently



Economic Impact

Studies of restoration projects in Brazil demonstrate positive financial returns, with Biomass combining carbon credit revenues and land value gains



CO₂ Impact

Muçununga pilot expects ~500k tCO₂e removals over 40 years. The broader portfolio targets up to 900 million tCO₂e removals



External Links: [Home](#); [Santander ramps up deforestation initiatives in fight against climate change](#); [Annual Report ENG 2024](#); <https://exame.com/bussola/parceria-projeta-restaurar-1200-hectares-de-mata-atlantica/>

Miyawaki Forestation – Carbon Sequestration in Industrial Landscapes | CESC Limited

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Supply

Asia / Oceania
India



► Overview



Case objectives

Convert unused industrial land into dense, biodiverse native forests using the Miyawaki method to boost CO₂ sequestration, restore ecosystems, and create long-term climate and biodiversity benefits



Institutions Involved

CESC Limited



WG Alignment

Forest restoration; low-cost implementation

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Climatic variations; sapling survival rates; invasive species; community engagement challenges



Scalability

Replicable across multiple industries and industrial sites, providing a low-cost and fast-growing forest model with measurable carbon and biodiversity impacts

► Impact



Innovative Drive

Adopts the Miyawaki method in industrial landscapes, creating dense native forests within 3 years. Demonstrates how corporates can shift from compliance-driven planting to biodiversity as strategy



Economic Impact

Self-funded by CESC Limited; cost-effective, minimal maintenance after 1 year, long-term ecological and financial returns



CO₂ Impact

Sequestration of over 560 metric tons of CO₂. Improves soil organic carbon and creates microhabitats



External Links: <https://www.cesc.co.in/storage/uploads/sustainability/ESG%20Report%202023-24.pdf>

Online Platform for Carbon Offsetting in Civil Construction | 3-4 Cities

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Trading &
measurement

**South America
Brazil**



► Overview



Case objectives

Create a national platform that integrates carbon offsetting into the civil construction sector. The system links building permits and technical documents to a mandatory compensation fee, calculated by square meter and typology, funding reforestation and NbS



Institutions Involved

3-4 Cities; REDE REGENERA



WG Alignment

Regulatory frameworks, governance alignment

► Case maturity



Case Stage

☐ Under planning



Risk Involved

Resistance from public agencies; low adoption by construction companies; integration challenges with municipal systems; budget constraints



Scalability

Designed to scale nationally by linking municipal and federal construction permitting systems, with potential expansion to international markets.

► Impact



Innovative Drive

Uses blockchain for transparency and traceability. Integrates regulatory compliance, financial self-sustainability, and NbS financing in one mechanism



Economic Impact

Creates a self-sustaining model that funds NbS and strengthens urban climate governance



CO2 Impact

Estimated offset potential of up to 8 tons CO₂ per project in pilot phase



External Links: <https://brasilparticipativo.presidencia.gov.br/processes/planoclima/f/85/proposals/18111>

Carbon Free Brasil: Technology-Driven Emissions Management with Scalable Climate Results | Carbon Free Brasil

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Trading &
measurement

South America
Brazil



► Overview



Case objectives

Provide companies with a scalable, tech-based solution to measure, reduce, and offset GHG emissions with verified climate and social impact



Institutions Involved

Carbon Free Brasil; Renault; Grupo Barigui



WG Alignment

Voluntary carbon markets, emissions reduction pathways; digital MRV

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Low data quality; limited staff engagement; infrastructure gaps; offset delays; dependency on OEM engagement



Scalability

Adopted across 81 Renault dealerships and expanding to other dealership groups. Standardized onboarding enable rapid replication across automotive retail and beyond

► Impact



Innovative Drive

Proprietary platform automates GHG inventories, connects clients to certified offsets, and integrates an environmental cashback model funding native forest restoration



Economic Impact

Self-funded by dealerships; low-cost model; it enhances brand value, and reduces regulatory risk, creating ROI through reputation, market positioning, and client retention



CO2 Impact

Over 1,200 tCO₂e offset annually through certified credits (Verra). ~120 tCO₂e/year avoided via efficiency measures



External Links: <https://docs.google.com/presentation/d/1FZ2zaoY881PqnXwbQnfRPYqyoJnobA87jqUb8zzSe1M/edit>

Towards No Net Loss and Nature Positive: A Scalable Method to Quantify Biodiversity Impacts in Tropical Landscapes | Instituto Tecnológico Vale

Nature-based Solutions
case selection



Activity
Restoration



Habitat
Forest



Value chain position
Trading & measurement

Global



► Overview



Case objectives

Introduce a robust and scalable methodology to measure biodiversity losses and gains in tropical landscapes impacted by mining project



Institutions Involved

Instituto Tecnológico Vale; Vale S.A.



WG Alignment

Biodiversity accounting; science-based metrics

► Case maturity



Case Stage



Under implementation



Risk Involved

Ecological uncertainties; limited availability of reliable data; operational complexity



Scalability

The Biotic Value framework is modular and adaptable, designed for application across sectors, biomes, and geographies where ecological data is available

► Impact



Innovative Drive

Develops the Biotic Value indicator, integrating ecological data (area, importance, biodiversity complexity) into a standardized, comparable metric. Bridges academic science with corporate practice in impact management



Economic Impact

Supports ESG performance, permitting processes, and compliance. Helps reduce long-term environmental liabilities and optimize restoration targeting, creating cost savings



CO2 Impact

While focused on biodiversity, the methodology indirectly supports restoration in degraded areas, enabling carbon sequestration co-benefits



External Links: <https://www.sciencedirect.com/science/article/pii/S0959652624004062>

Carbon Neutral Portfolio through Carbon Emission Reduction and Offset of Remaining Emissions | Solvay

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Demand

South America
Brazil



► Overview



Case objectives

Achieve a carbon-neutral product portfolio with up to 93% of cradle-to-gate Product Carbon Footprint (PCF) reduction through efficiency, renewable energy, and abatement projects, and offsetting remaining emissions with high-quality NbS credits from reforestation



Institutions Involved

Solvay; Office National des Forêts (ONF Brasil)



WG Alignment

Carbon markets, high-integrity offsets

► Case maturity



Case Stage

Implemented
generating first results



Risk Involved

Not disclosed



Scalability

Model replicable by corporations, uniting emissions cuts, verified Product Carbon Footprint, and NbS offsets, scaling to carbon-neutral portfolio within 1–2 years

► Impact



Innovative Drive

Combines large-scale PCF reductions with rigorous third-party verification of Product Carbon Footprint (PCF) and selective NbS offsets. Out of 11,000+ projects screened, only one reforestation project (Fazenda São Nicolau) was chosen through strict audits, setting a benchmark in transparency and quality



Economic Impact

Portfolio demonstrates commercial viability of NbS project due diligence



CO2 Impact

The reforestation NbS project captures and stores carbon while restoring ecosystems



External Links: <https://www.solvay.com/en/sustainability/carbon-neutral-products>

One Click for Climate: Scalable Offsetting for Global Impact | CarbonClick

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Demand

Global



► Overview



Case objectives

Make carbon offsetting simple, trusted, and impactful by enabling businesses and individuals to support high-quality NbS projects at scale



Institutions Involved

CarbonClick



WG Alignment

High-integrity offsets; voluntary carbon markets

► Case maturity



Case Stage

Mature
generating stable results



Risk Involved

Low customer uptake; perceptions of greenwashing; regulatory shifts; technical integration delays; offset project underperformance



Scalability

Scalable across industries with plug-and-play API, widget, and SaaS model. When broadly adopted, can channel millions of tonnes of CO₂e reductions while supporting ESG targets

► Impact



Innovative Drive

Simplifies climate action with one-click offsetting, pre-vetted NbS projects, and full traceability via a 7-Point Impact Check. Modular tech and rapid onboarding make it easy for enterprises to deploy offset programs



Economic Impact

Boosts customer retention and provides companies with a low-cost, fast ROI to meet ESG commitments



CO₂ Impact

Over 75,000 tCO₂e offsets recorded



External Links: www.carbonclick.com

Nature-based Solutions | Google

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Demand

Global
Brazil focus



► Overview



Case objectives

Invest in NbS and carbon removal projects, using AI and digital tools to protect forests, fight deforestation, and expand high-quality climate solutions worldwide



Institutions Involved

Google; Terradot; Mombak; as well as other carbon removal partnerships, including through Frontier and Symbiosis; MapBiomass; The Nature Conservancy



WG Alignment

Carbon removal; MRV advancements; biodiversity monitoring

► Case maturity



Case Stage

 Under implementation



Risk Involved

Not disclosed



Scalability

Google leverages its global scale, AI capacity, and partnerships to expand NbS and carbon removal projects, creating replicable models for corporate ESG engagement

► Impact



Innovative Drive

Funds diverse NbS and carbon removal approaches, such as enhanced rock weathering, and reforestation of the Amazon (Mombak). In addition, applies Google's technology to AI-powered forest fingerprinting (The Nature Conservancy), and geospatial monitoring (MapBiomass).



Economic Impact

Mobilizes significant investment into carbon removal and NbS projects, positioning nature-based solutions as investable assets



CO2 Impact

For carbon removal projects: 200,000 tCO₂e Terradot, 50,000 tCO₂e Mombak, ~728,300 tCO₂e for additional offtakes in 2024



External Links: <https://blog.google/outreach-initiatives/sustainability/our-progress-to-accelerate-carbon-removal-solutions/>

Habitat Banks Driving Private Sector Investment in Nature-based Solutions | Terrasos

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Financing instruments

Global
Colombia focus



► Overview



Case objectives

Scale private sector investment in biodiversity by creating habitat banks that restore threatened ecosystems, consolidate compensatory obligations, and generate measurable biodiversity gains through voluntary and compliance markets



Institutions Involved

Terrasos



WG Alignment

Regulatory frameworks; blended finance

► Case maturity



Case Stage

Implemented
generating first results



Risk Involved

Regulatory uncertainty in target countries; operational challenges in remote areas; climate variability affecting restoration; workforce limitations; data systemization issues



Scalability

Designed for regional expansion: pilots in 3-5 habitat banks, 100,000 hectares efficiently delivered, and MDBs adopting habitat banking in loans

► Impact



Innovative Drive

Introduced biodiversity unit protocol; blockchain traceability for voluntary credits. Pioneers integration of finance, technology, and conservation into scalable biodiversity markets



Economic Impact

Provides cost-efficient biodiversity compensation and mobilizes private capital for conservation



CO2 Impact

Each habitat bank secures carbon sequestration as a co-benefit. Estimated CO₂ depends on ecosystem type



External Links: <https://www.terrasos.co/en/about-us/>

Green Catalytic Fund | Latimpecto

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Financing instruments

South America
Colombia



► Overview



Case objectives

Accelerate decarbonization in Latin America and the Caribbean by funding and strengthening early-stage NbS and climate ventures with scalable potential



Institutions Involved

Latimpecto; IDB Lab; Coca-Cola; Bayer Foundation; Inter-American Development Bank; Green Climate Fund



WG Alignment

Blended finance; innovation ecosystems

► Case maturity



Case Stage

Under implementation



Risk Involved

Limited ESO absorption capacity; disbursement delays; regulatory changes; impact measurement challenges; early-stage venture risk



Scalability

Scales climate solutions via Ecosystem Support Organizations (ESOs) and early-stage ventures. Adoption by multiple companies can drive emissions reduction and resource efficiency

► Impact



Innovative Drive

Combines catalytic capital, ESO capacity building, and data-driven selection to de-risk and grow early-stage NbS ventures often overlooked by traditional investors



Economic Impact

Strengthens local green economies by channeling philanthropic and corporate capital into inclusive early-stage ventures, supporting SMEs, and local communities



CO2 Impact

Ventures identified with high CO₂ reduction potential; impacts will be measured during implementation



External Links: <https://latimpecto.org/en/fondo-verde-catalitico/>

Case Studies on Blended Finance and Sustainable Investing in Brazil | Columbia University

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Financing instruments

South America
Brazil



► Overview



Case objectives

Document and analyze blended finance and sustainable investing cases in Brazil, highlighting how financial innovation can channel resources to NbS and climate-positive projects



Institutions Involved

Mirova; Sabesp; KPTL; Vale (and others featured in case studies)



WG Alignment

Blended finance; mobilizing private capital; de-risking mechanism

► Case maturity



Case Stage

Implemented
generating first results



Risk Involved

Not disclosed



Scalability

Provides replicable finance models that can be adapted across sectors and geographies, particularly where blended mechanisms unlock risk-tolerant capital for NbS

► Impact



Innovative Drive

Highlights pioneering cases bridging ESG investing with on-the-ground NbS



Economic Impact

Showcases how blended finance can reduce cost of capital, attract institutional investors, and generate long-term financial and social returns, positioning NbS as viable investment assets



CO2 Impact

Case studies include projects with measurable GHG mitigation and resilience co-benefits; aggregated figures depend on project



External Links: https://siri.sipa.columbia.edu/sites/siri.sipa.columbia.edu/files/content/SIRI%20Blended%20Finance_Case%20Studies%20Brazil_2025_0.pdf

Environmental Compensations Credit Fund | IWA Gestão de Recursos Ltda

Nature-based Solutions case selection



Activity
Restoration



Habitat
Forest



Value chain position
Financing instruments

South America
Brazil



► Overview



Case objectives

Provide credit to companies with legal environmental compensation obligations, financing restoration projects that ensure compliance while promoting large-scale Atlantic Forest recovery



Institutions Involved

IWA Gestão de Recursos Ltda



WG Alignment

Blended finance; regulatory compliance

► Case maturity



Case Stage

Under implementation



Risk Involved

Credit default by obligated companies; project underperformance (low survival rates); changes in compensation laws or regulations



Scalability

Model can be scaled to mobilize billions in private capital for nature-based solutions. By creating liquidity and demand for restoration credits, it can drive systemic forest recovery

► Impact



Innovative Drive

Creates a credit fund dedicated to environmental compensation obligations in Brazil, linking regulatory requirements with private investment



Economic Impact

Mobilizes private capital into restoration finance while ensuring stable returns for investors. The model combines compliance-driven demand with financial innovation



CO2 Impact

As the fund finances large-scale restoration, outcomes are expected to deliver millions of tons in removals

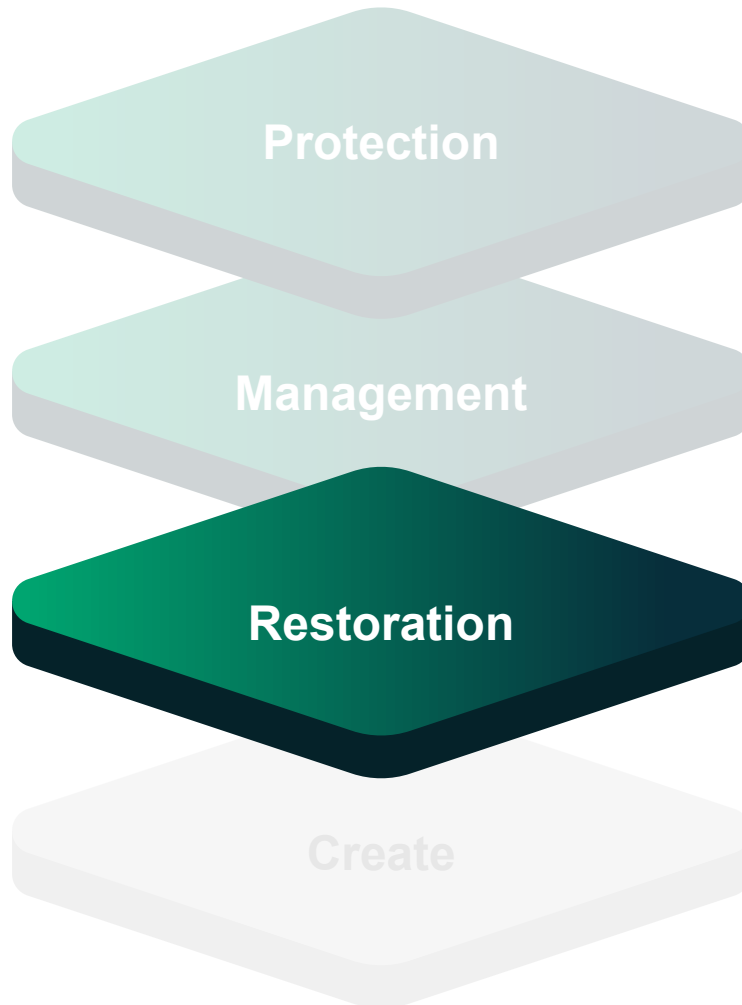


External Links: <https://www.iwa.am/>

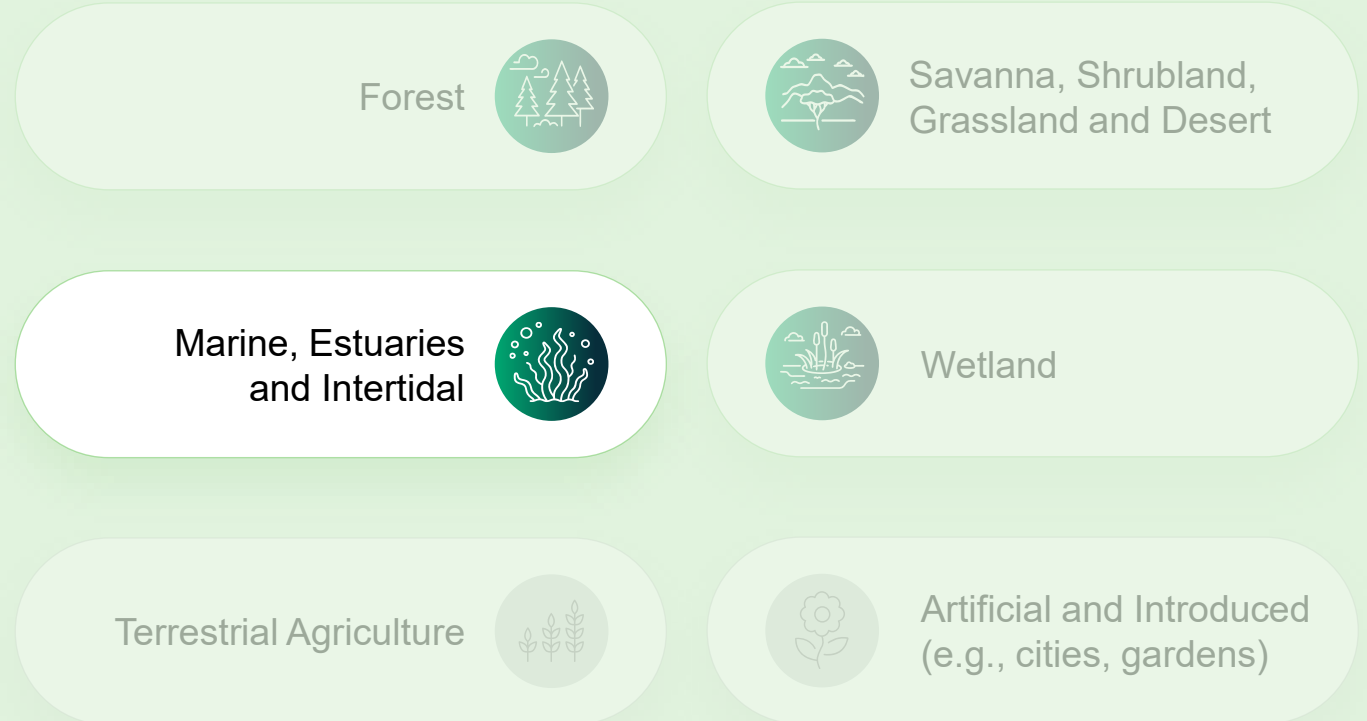
Nature-based Solutions (NbS) working group scope



Interventions



Habitats



● In scope ● Out of scope

Note on restoration interventions: *Focus of this working group is on ecological restoration, and interventions will also be considered restoration when forests previously existed on the land, regardless of how long ago degradation occurred.*



Carbono Azul | Nosso Manguê

Nature-based Solutions case selection



Activity
Restoration



Habitat
Marine, Estuaries and
Intertidal



Value chain position
Supply

**South America
Brazil**



► Overview



Case objectives

Measure and restore carbon in mangroves, building the foundation for future blue carbon credits while generating income and environmental education for local communities



Institutions Involved

Nosso Manguê



WG Alignment

Restoration; community engagement

► Case maturity



Case Stage

☐ Under planning



Risk Involved

Funding gaps for R&D; regulatory hurdles; vulnerability to extreme climate events



Scalability

The model can expand to restore mangroves at scale, generating blue carbon credits and strengthening ecosystem services aligned with Paris Agreement goals

► Impact



Innovative Drive

Applies IoT and geoprocessing technologies for real-time mangrove monitoring, integrating environmental data into a transparent blue carbon compensation platform



Economic Impact

Seeks public and private funding (preferably non-reimbursable) to develop restoration and credit generation. Potential to create a high-value blue carbon market



CO2 Impact

The project aims to quantify and certify blue carbon removals from restored mangrove areas



External Links: <https://www.linkedin.com/company/nosso-manguê-br/?viewAsMember=true>

MangueLab | OceanPact Maritime Services

Nature-based Solutions case selection



Activity
Restoration



Habitat
Marine, Estuaries and
Intertidal



Value chain position
Trading &
measurement

**South America
Brazil**



► Overview



Case objectives

Develop innovative solutions to enhance mangrove restoration efficiency and carbon measurement, reducing costs and promoting scalable blue carbon projects



Institutions Involved

OceanPact Maritime Services; Qatar Energy



WG Alignment

Carbon measurement innovation

► Case maturity



Case Stage

Implemented
generating first results



Risk Involved

Restoration failure; underperformance of new technologies; salinity and humidity affecting sensors; community engagement challenges



Scalability

Aims to deliver low-cost, replicable protocols for mangrove restoration and carbon accounting, with potential to expand nationally and internationally as a model for blue carbon projects

► Impact



Innovative Drive

Combines germplasm management, process semi-automation, drones, low-cost methane sensors, bioenhancers, and AI-driven modeling to improve restoration efficiency and carbon quantification in mangroves



Economic Impact

Funded through Brazil's oil & gas regulatory mechanism. Reduces restoration and measurement costs, increasing investor confidence and margins for blue carbon credits



CO2 Impact

Activities include carbon stock quantification, methane monitoring, and biodiversity correlations

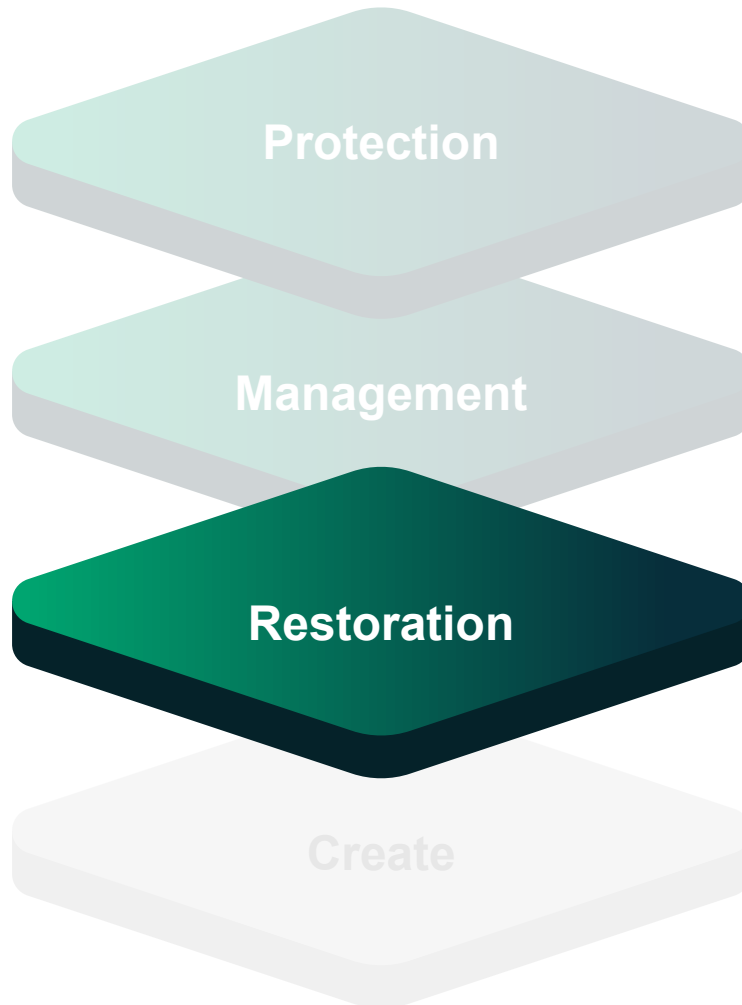


External Links: Not disclosed

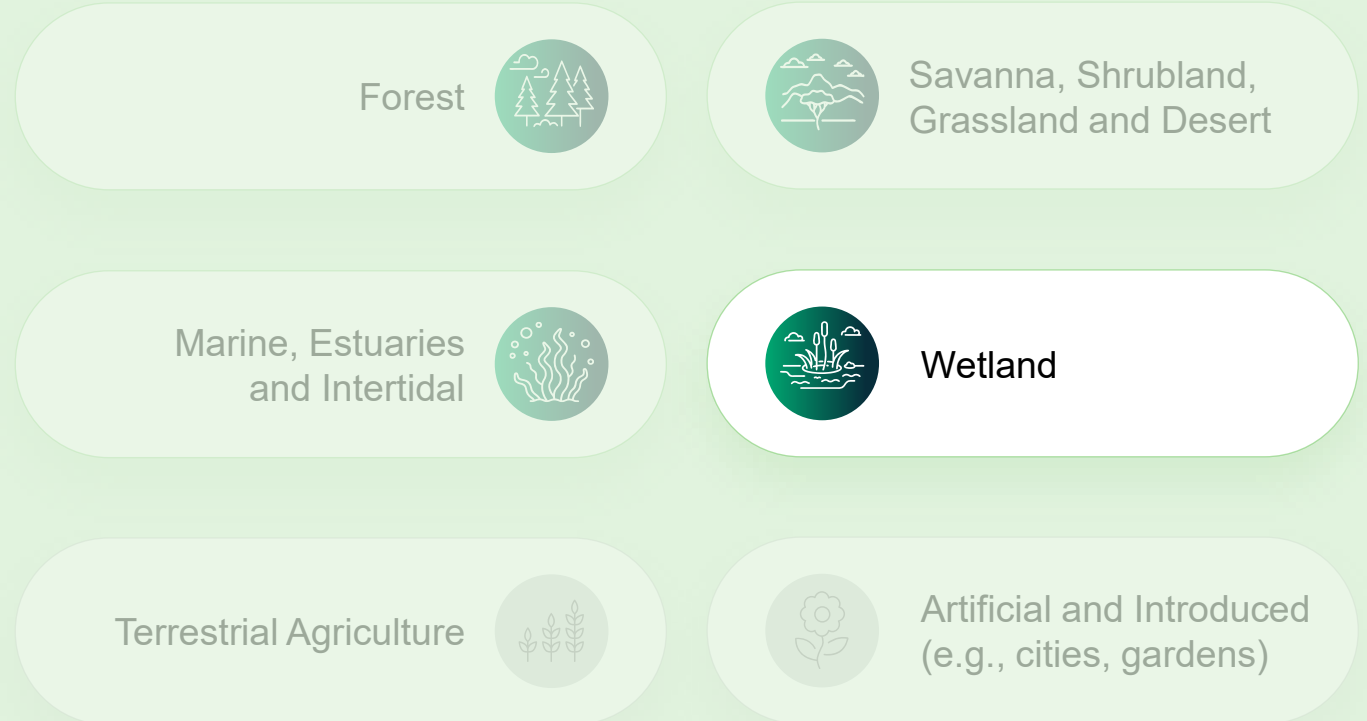
Nature-based Solutions (NbS) working group scope



Interventions



Habitats



● In scope ● Out of scope

Note on restoration interventions: *Focus of this working group is on ecological restoration, and interventions will also be considered restoration when forests previously existed on the land, regardless of how long ago degradation occurred.*



Extracted Kaigu peatland restoration process for implementation of paludiculture and carbon certification | Laflora

Nature-based Solutions case selection



Activity
Restoration



Habitat
Wetland



Value chain position
Supply

Europe
Latvia



► Overview



Case objectives

Restore 16.4 hectares of extracted peatland in Jelgava County by rewetting and stabilizing the water table, enabling carbon sequestration, habitat recovery, and eligibility for carbon credits. The initiative integrates paludiculture, hydrological regulation, and robust carbon certification under the VCM (VM0036 methodology for rewetting drained temperate peatlands)



Institutions Involved

Laflora Ltd; Verra; EPIC – Lake and Peatland Research Centre; Others



WG Alignment

Land use transformation; carbon markets

► Case maturity



Case Stage

 Under implementation



Risk Involved

Incomplete or ineffective rewetting, seasonal variability and drought, technical or engineering failures, methane emission increase, delayed vegetation recovery, and impacts on surrounding land use



Scalability

When replicated by multiple companies, peatland restoration provides a high-impact, cost-effective, and scalable NbS model, supporting global climate agreements

► Impact



Innovative Drive

Integrates paludiculture for sustainable land use with advanced hydrological engineering, robust carbon certification frameworks, and cutting-edge GHG monitoring. The project also builds local scientific capacity and fosters multi-stakeholder collaboration



Economic Impact

Supports sustainable land use and community livelihoods through paludiculture, knowledge transfer, and strengthened participation in carbon markets



CO2 Impact

Rewetting: estimated carbon offset of ~124.9 tCO₂e per hectare per year; paludiculture: estimated ~180.4 tCO₂e per hectare per year



External Links: <https://laflora.lv/laflora30>



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Annexes



Annex A – Process Overview



Case Submission

- **Official platform launched** on **June 23rd** to collect cases from the private sector
- **Submission window** remained open **until July 25th**, with an **extension** granted until **September 1st** to allow additional entries
- In total, **64 cases** were received



Case Screening & Analysis

- Preliminary review removed cases considered **out of scope**
- Remaining cases were evaluated against the **adapted Secretariat criteria**
- A **shortlist of 12** cases was consolidated by the Working Group



Selection Committee

- The **shortlist was shared** with the Selection Committee
- **Composition:** Karen Holl – Professor of Environmental Studies, University of California; Renata Piazzon – Executive Director, Arapyau Institute; Daniela Carbinato – Partner and Head of ESG Practice in South America, Bain & Company
- Members **reviewed the cases and allocated 6 votes**
- A **final list of 6 selected cases** was approved, **guided by principles** such as geographic balance, ecosystem diversity, stakeholder engagement, innovative finance, and time to impact





Annex B – Disclaimer

The information presented in this booklet is the sole responsibility of the institutions that submitted the cases. All case descriptions reflect the information shared directly by the applicants.

The primary source for the evaluations described herein was the submitted cases; however, in certain instances, additional publicly available information from websites and/or official documents was consulted.

Where specific information was not provided by the applicants, the Working Group applied its best judgment to interpret missing parts, taking into account the context of each case.





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CNI *Brazilian National
Confederation
of Industry*