



Nature-Based Solutions

Opportunities for Carbon Sequestration and Biodiversity Enhancement

Agenda

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- Carbon Credit Types
- The Project Development Cycle
- Benefits and Opportunities in NBS Activities
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2. NBS Projects: Trafigura Experience and Case Studies





- Trafigura Activities
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- Case Study: Landscape Restoration in Colombia

INTRODUCTION TO NATURE-BASED SOLUTIONS



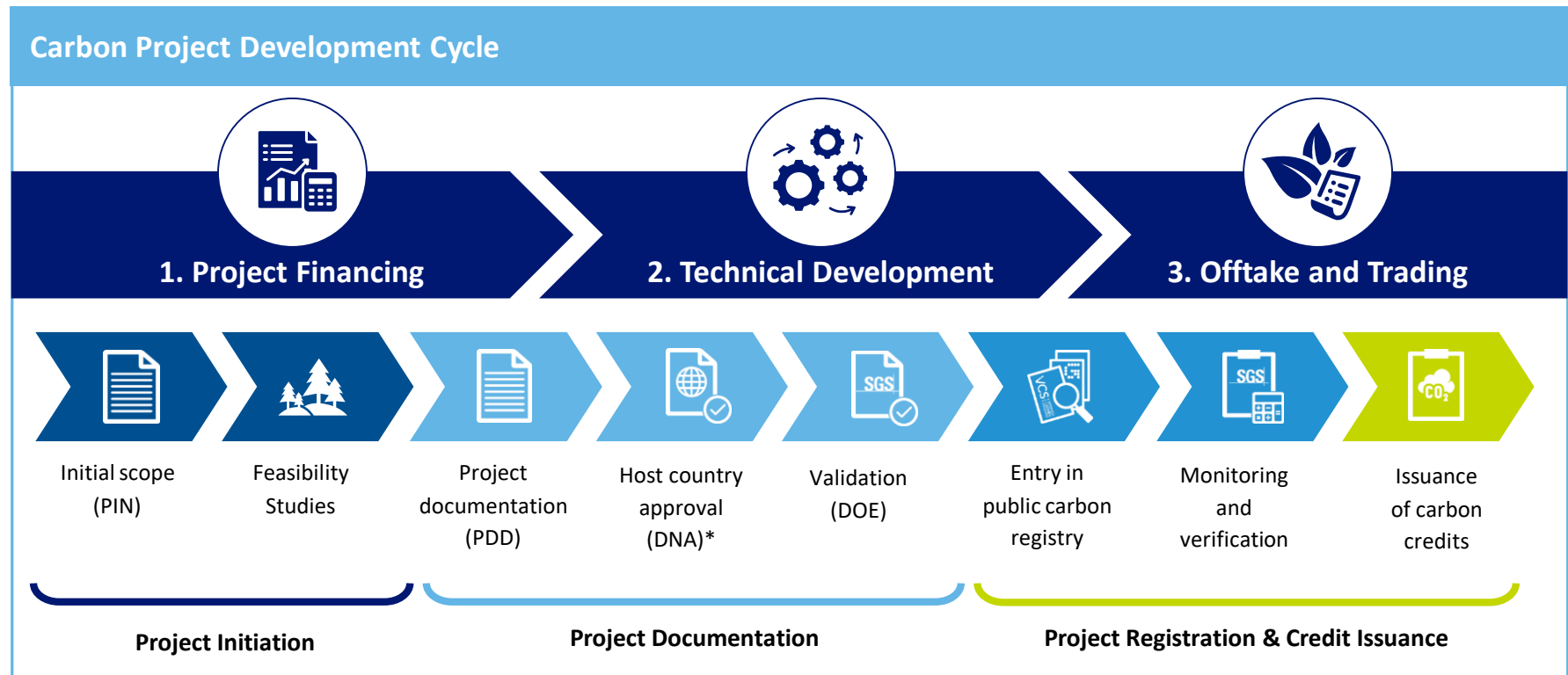
Types of Carbon Credits

There are a wide range of activities that produce carbon credits, that can be widely classified across **technology based projects** or **nature based solutions (NBS)**. Within these types, activities are **either avoidance** or **removals**

AVOIDANCE	REMOVALS
Avoidance projects are those in which project activities result in avoided emissions of greenhouse gases.	Removals projects are those in which project activities result in the sequestration of greenhouse gases from the atmosphere.
TECHNOLOGY BASED PROJECTS	
 Renewable Energy	 Direct Air Capture
NATURE BASED PROJECTS	
 Conservation	 Reforestation

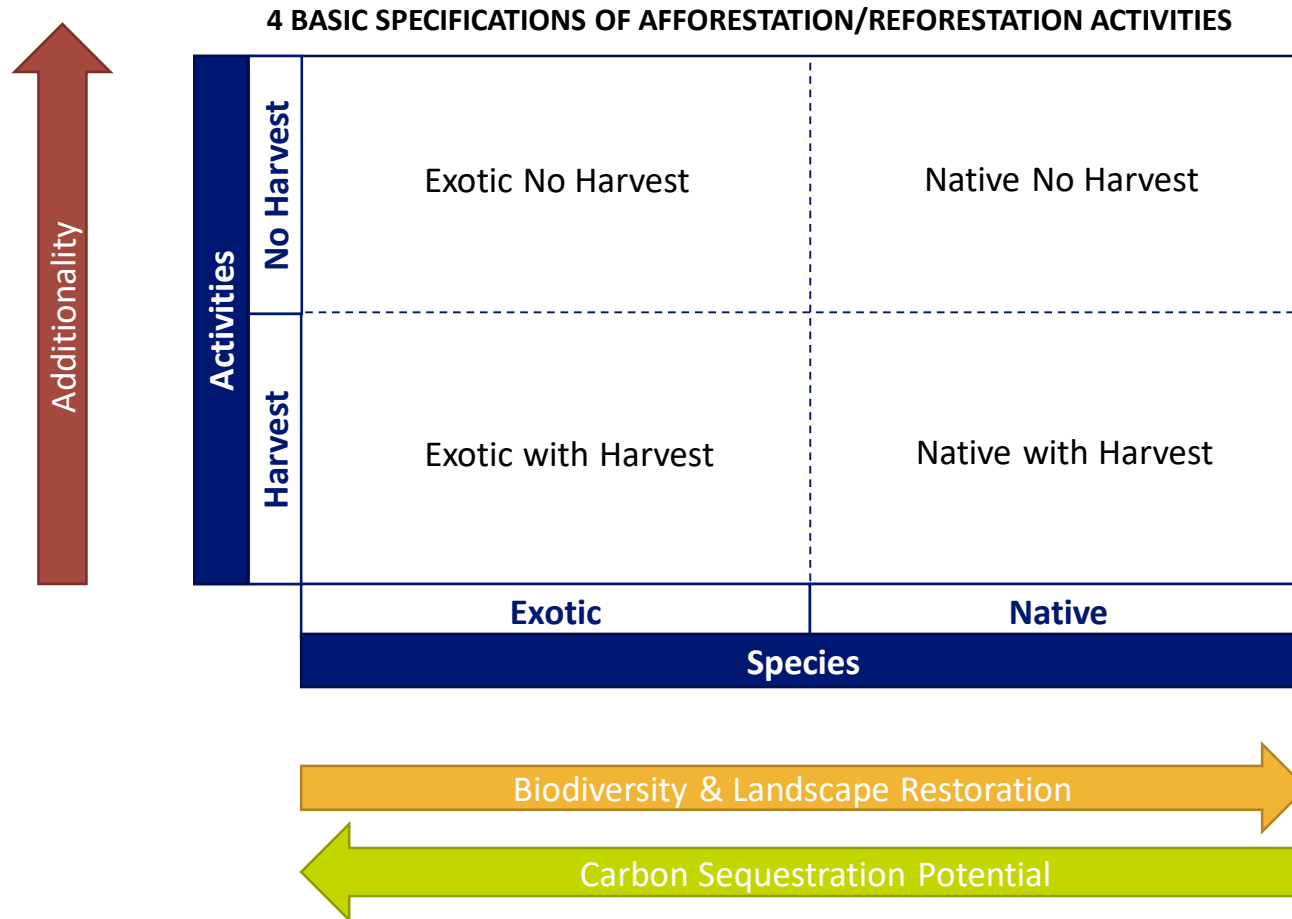
The Project Development Cycle

While Registries vary in types and eligibility, all carbon projects must follow the steps within the Project Development Cycle, with varying **technical** and **financing** requirements throughout



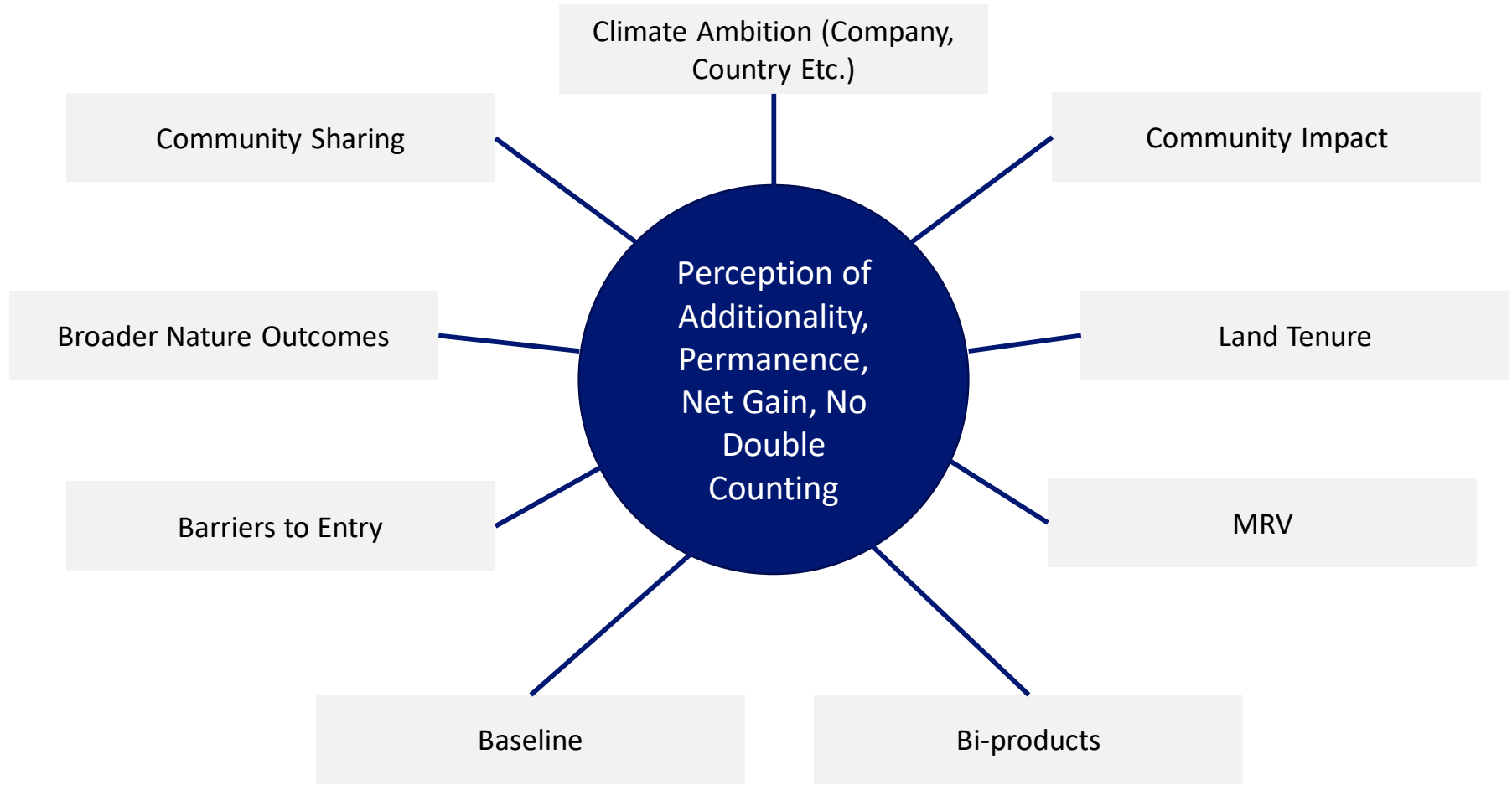
Benefits and Opportunities in NBS Activities

Within NBS, there can be differing implementation attributes, from species planted to harvesting activities, that can result in a range of different ecosystem benefits.



Further Attributes of NBS

In addition, there are a number of other factors that may differentiate a nature-based project



Focus on Biodiversity: Attribute Today, Credit Tomorrow

NBS are an important tool for protecting and enhancing biodiversity. While today, it is treated as an attribute of projects through specific labels such as CCB, the frameworks for developing and trading biodiversity credits are progressing

SUCH EFFORTS ARE EXEMPLIFIED BY:

- **The contribution of the Global Environment Facility (GEF) Expert Panel** to the OneForest Summit
- **The Australian Government** has taken leadership in advancing what would be the first national regulatory framework for biodiversity credit markets.
- **Collaborative initiatives** include the Biodiversity Credit Alliance and the World Economic Forum's Working Group on Biodiversity Credit Markets, both of which NatureFinance is a part of.



Trafigura ARR project Paraguay, 2023

NBS PROJECT DEVELOPMENT

TRAFIGURA EXPERIENCE AND CASE STUDIES

Trafigura Activities

Trafigura's Origination Team engages with project owners, customers and policymakers via bespoke partnerships to produce the highest quality carbon credits, applicable to both voluntary and/or compliance markets. With a particular focus on NBS project development.

Project activities within Trafigura's scope of development appetite:



Mangroves



Terrestrial afforestation



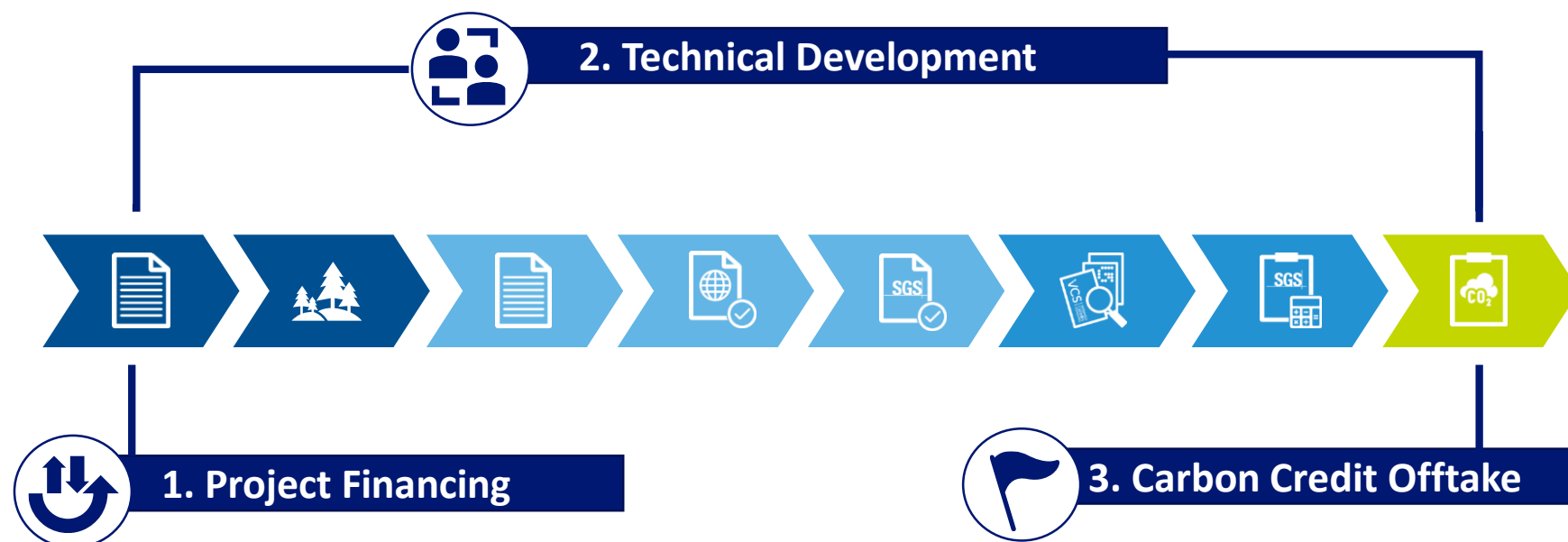
Soil carbon



Biochar



Engineered removal



Case Study: Large-Scale Mangrove Restoration

Trafigura is anchor offtaker of the Delta Blue Carbon, a flagship global carbon project involving a public and private partnership to reforest over 225,000 ha of mangroves in Pakistan

Snapshot

Size	C. 225,000 ha of mangrove reforestation and restoration implemented over 350,000 hectares
Location	Sindh Province, Pakistan where in recent decades the mangroves were devastated by large-scale deforestation
Activity	<ul style="list-style-type: none">73,466 ha planted to 2021 out of a total anticipated target of 224,997 hectares of reforestation of mangrovesSignificant benefits to over 49,000 local peopleProject moderate the disturbances caused by tsunamis, floods and provide a natural barrier against coastal erosion
Implementation Partner	Working alongside Government of Sindh Forest Department and Indus Delta Capital Limited
Carbon Asset Development	First issuance completed in 2023 Silvestrum Climate Associates dedicated carbon developers
Operational Status	73,466 ha planted to 2021 out of a total anticipated target of 224,997 hectares of reforestation of mangroves



Key Project Hallmarks



Public-private partnership, ensuring project alignment with carbon markets



Biodiversity protection of unique ecosystem through wetland restoration



49,000 individuals in local communities benefit from job creation, healthcare, education and sanitation facilities

Case Study: Landscape Restoration in Colombia

Trafigura, in conjunction with our local partner Inverbosques, is developing up to 30,000 ha of permanent reforestation in the Vichada region of Colombia

Snapshot	
Size	Initially 10,000 ha to be planted in 2023, up to 30,000 ha anticipated
Location	Vichada has historically been subject to intense cattle grazing with periodic induced fires which has turned the landscape into an anthropogenic savannah with heavily degraded soils.
Activity	<ul style="list-style-type: none">Planting of initially 12 million eucalyptus trees purely for carbon sequestration and to develop a permanent forestEucalyptus provide an effective restoration bridge and will be blended with native forests over time as soils recover
Implementation Partner	Inverbosques, a leading forestry manager with 15 years track record in the region
Carbon Asset Development	Project will be added to existing umbrella project GS4221 as a new activity unit. Land already validated. Carbon developer – Forliance.
Operational Status	<ul style="list-style-type: none">Initial 10,000 ha securedInputs secured for 2023 plantingLand preparation underwayPlanting expected between April – September 2023



Key Project Hallmarks



Local implementation partner with more than a decade of experience working in the region



Reforestation creates ecological corridors for local fauna



Generation of local employment in the region and communications and transport infrastructure development

THANK YOU

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