



# Nature-based Solutions and the 2030 agenda

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UN Environment Brazil Office

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Julho 2018

# In this presentation:

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- Why do we need nature based solutions?
- What is common between nature based solutions (NbS) and the sustainable development goals (SDGs)?
- What is UN Environment doing?
- What do the projects have in common?

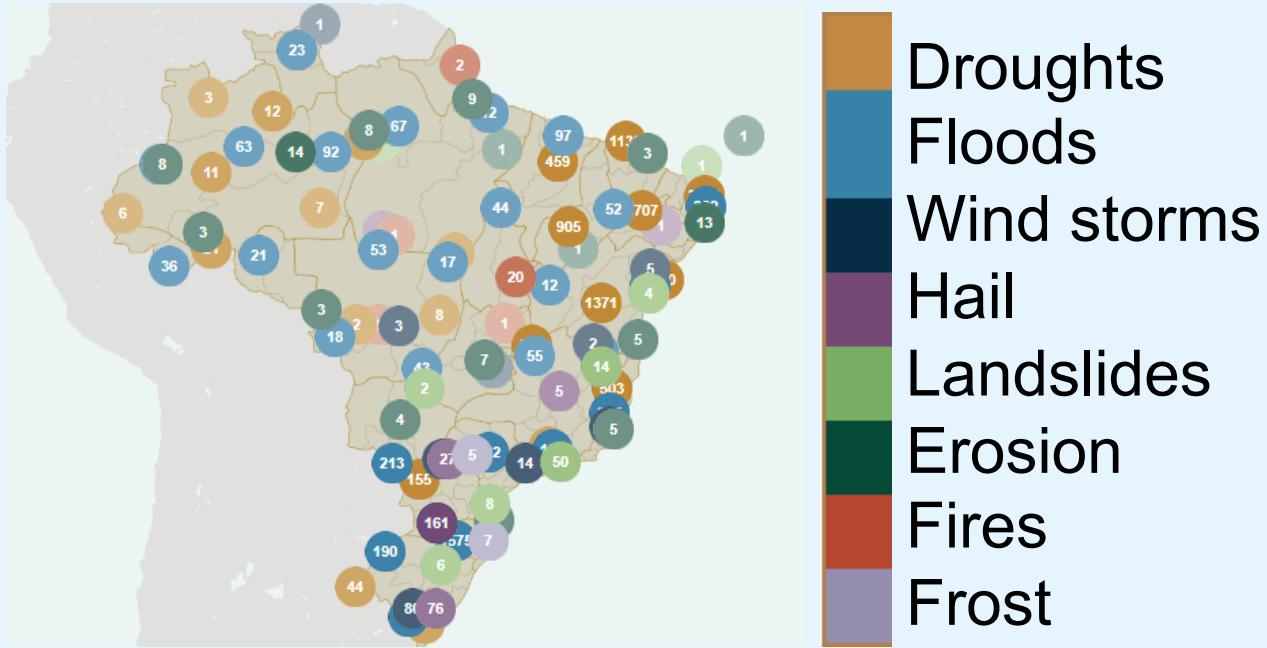
# Why do we need nature based solutions?



Societal Risks

# Why do we need nature based solutions?

# Map of natural disasters in Brazil



Source: <http://www.mapadecatastrofes.com.br/>

# Why do we need nature based solutions?

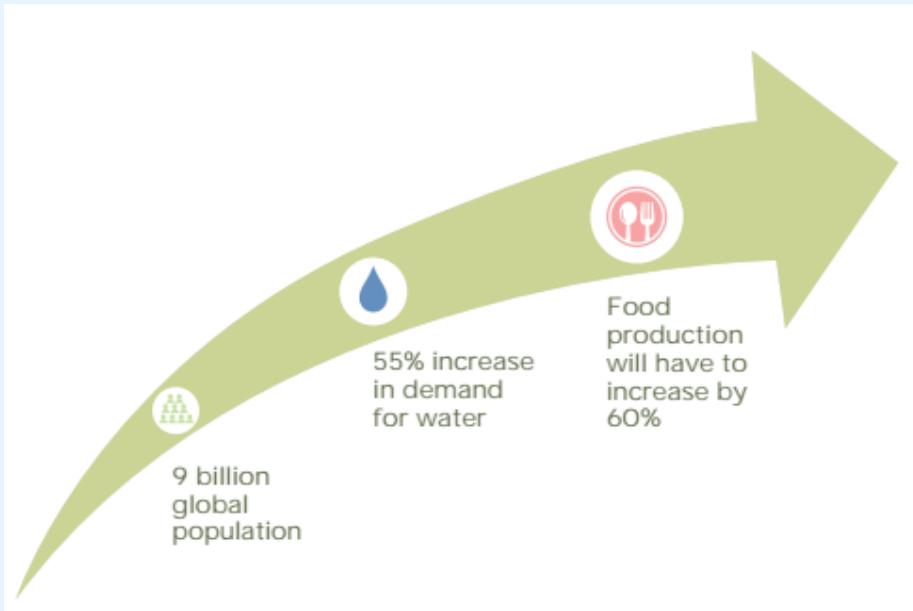
- **“Water: megacities are running dry in Brazil:**

...state and regional governments need guidance on economic-development models that are tailored to the capacities of regional freshwater ecosystems...”



# Why do we need Nature based solutions?

By 2050 the world will need:

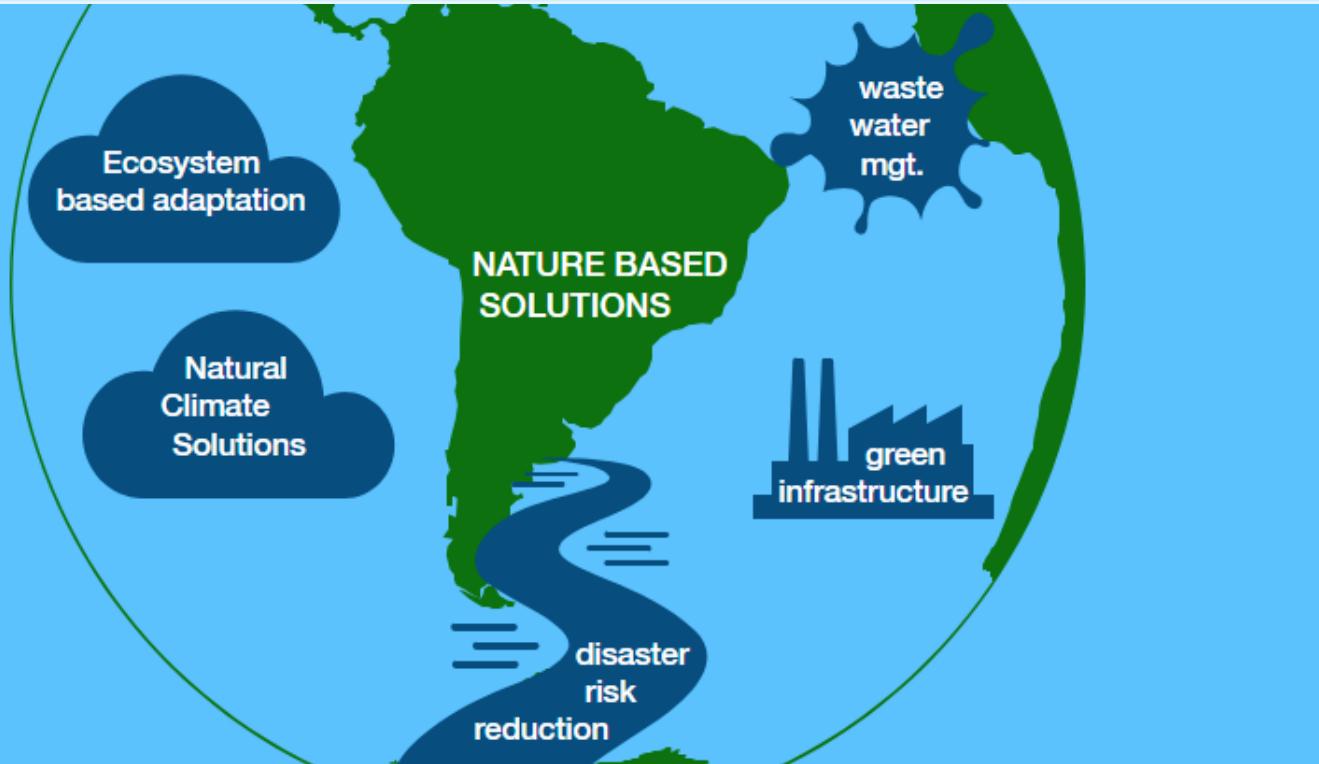


Source: UN Environment 2017

# Nature based Solutions (NbS)

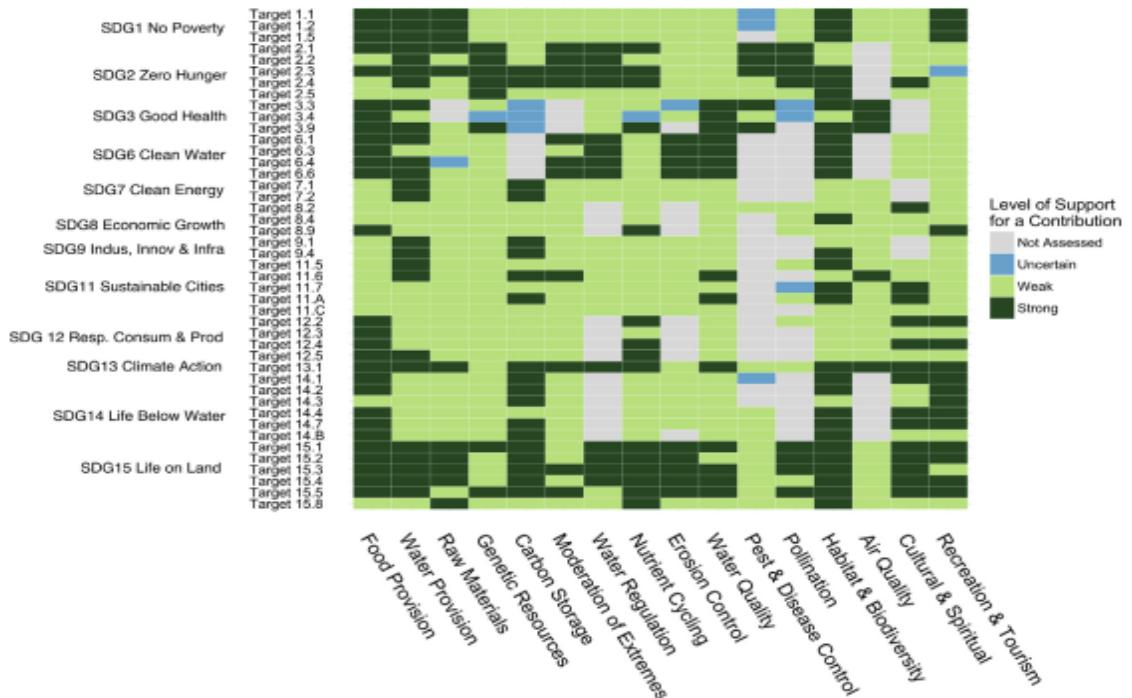
- “*...are actions which are **inspired** by, **supported** by or **copied** from using **nature.***”
- “*NbS use the features and complex system processes of nature, such as ability to store carbon and regulate water flow, in order to achieve desired outcomes, such as disaster risk reduction, improved human well being and socially inclusive green growth*”

# Nature based solution applications:



# SDGs and Ecosystems services

S.I.R. Wood et al./Ecosystem Services 29 (2018) 70–82

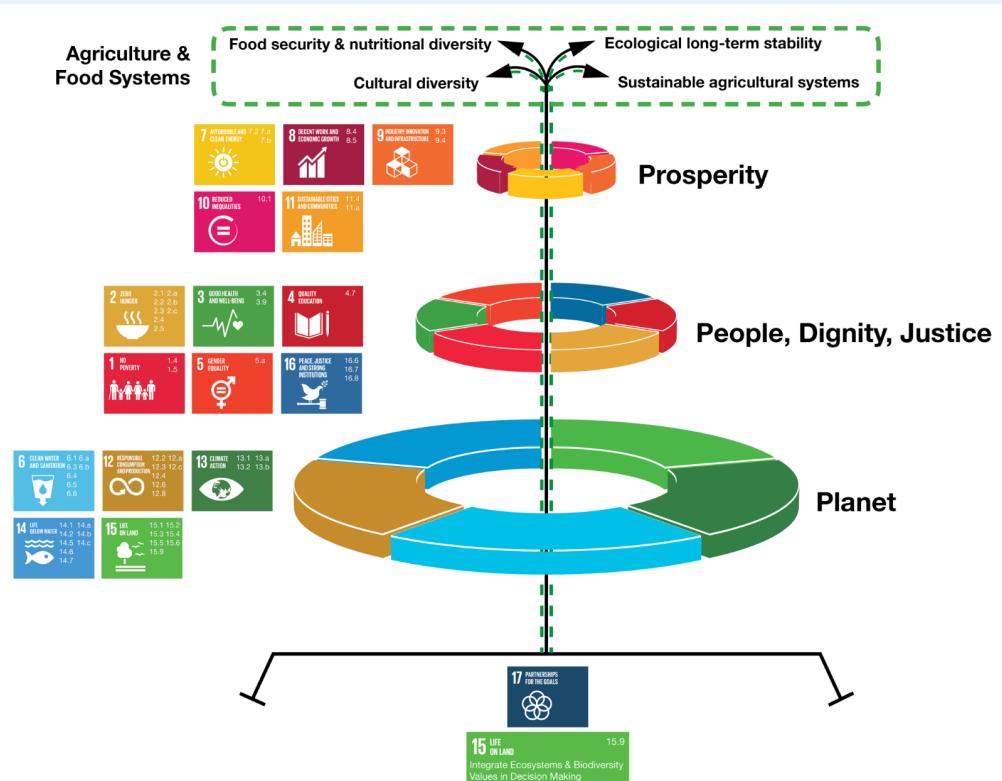


Source: Ecosystem Services 29 (2018) 70-82

Ecosystem services supports human well-being (e.g.: health, nutrition, water quality, reduce pollution, etc.)

Within the 17 SDGs, there are 14 targets for ecosystem services that are interconnected and support each other.

# UN Environment's activities on NbS: “environment underpins prosperity”



## Scientific Assessments

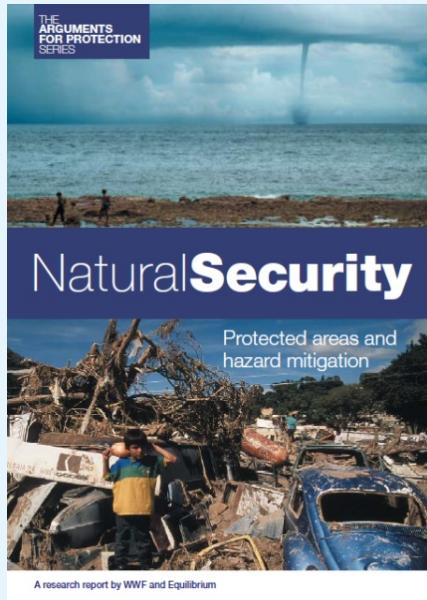
# Knowledge and policy integration

## **Partnerships for the implementation**

## Finance mechanisms

# What is UN Environment doing?

## Reducing disaster risk



## Adaptation to Climate Change

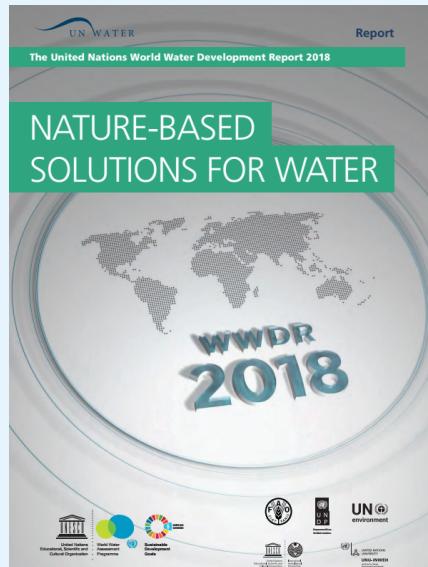
### Ecosystem-based approaches to adaptation

Strengthening the evidence and informing policy

Using ecological solutions to adapt to climate change – and promote sustainable development

iiED IUCN UNEP WCMC

## Addressing water issues



# What is UN Environment doing?

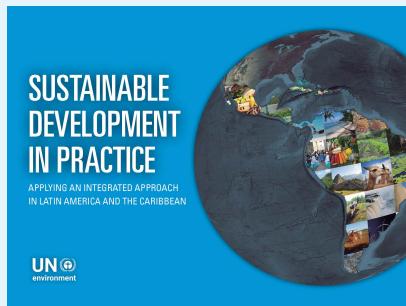
## Micro-finance



## Green Infrastructure



## Sustainable Development Goals



# Nature based Solutions for climate-resilience



## 1. Water catchment scale:

- Forest restoration and conservation
- Sustainable agriculture
- Infiltration ditches, absorption wells



## 2. Urban landscape scale:

- Restoration of the riparian zone

## 3. Household scale:

- Water harvesting systems
- Ecological sanitation
- Urban gardens
- Waste management

# Nature based Solutions for water



- Meet global water quality challenge
- **Protect and Restore freshwater ecosystems**
- Advance the integrated water resource management approach
- Promote resilience addressing water related disasters and conflicts

# Nature based solutions for the Private Sector:

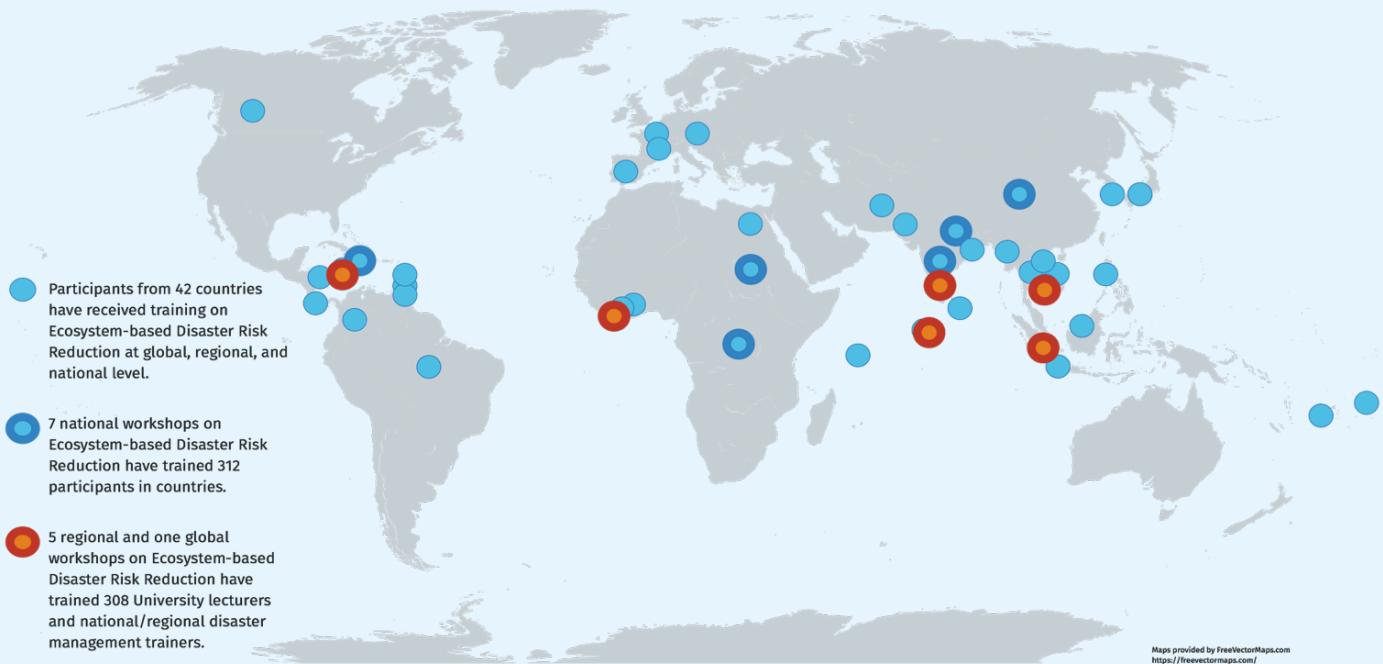
- Help companies respond to risk
- Green Infrastructure (e.g. water and waste management)
- Building resilience and delivering co-benefits



Source: UN environment and UNEP-WCMC project

# Nature based solutions for Disaster Risk Reduction

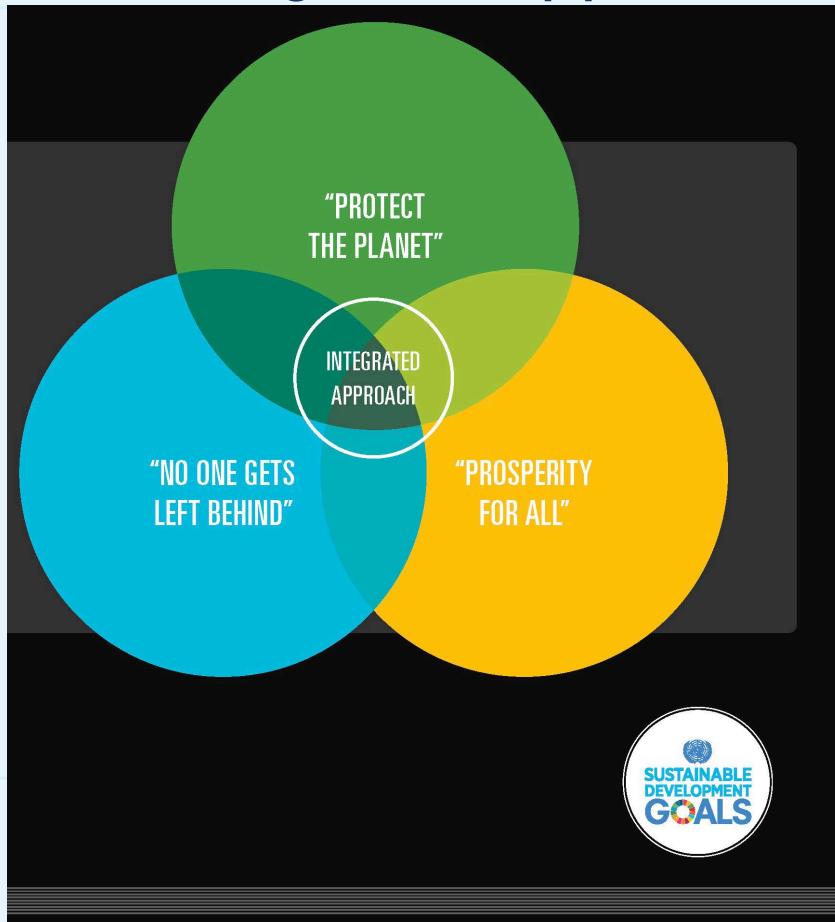
2012-2016



Maps provided by FreeVectorMaps.com  
<https://www.freemapshq.com/>

Source: UN environment Eco-DRR

# The integrated approach towards the SDGs

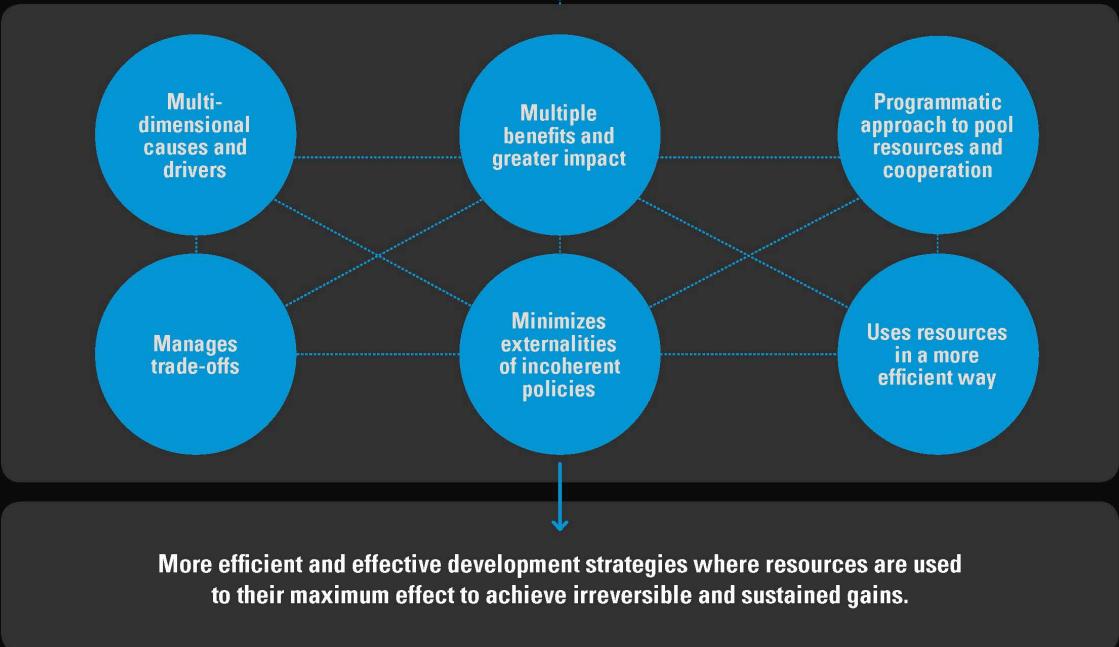


Integrated approach for sustainable development that promotes:

- sustained and inclusive economic growth;
- social development
- and environmental protection

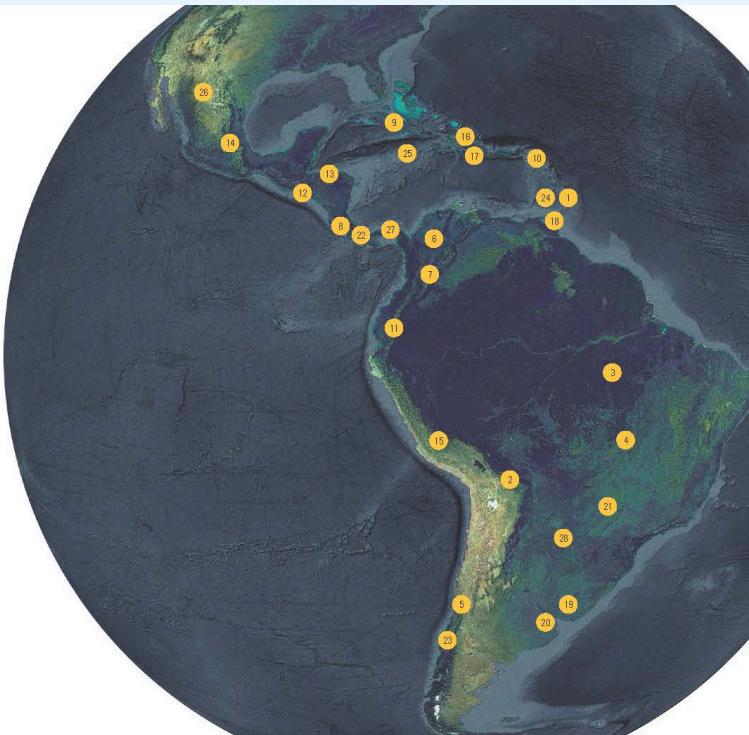
# WHY AN INTEGRATED APPROACH?

## AN INTEGRATED APPROACH FOR SUSTAINABLE DEVELOPMENT PLANNING



# SDGs experiences in Latin America

- 1 Barbados  
THE BARBADOS BOARDWALK
- 2 Bolivia  
COMMUNITY FOREST MANAGEMENT
- 3 Brazil  
BOLSA VERDE
- 4 Brazil  
SUSTAINABLE CONSUMPTION AND PRODUCTION
- 5 Chile  
HEALTHY AIR FOR SANTIAGO DE CHILE
- 6 Colombia  
BANCO2
- 7 Colombia  
SUSTAINABLE CATTLE RANCHING
- 8 Costa Rica  
ACTUAR
- 9 Cuba  
RECYCLING COOPERATIVES
- 10 Eastern Caribbean  
LIVING THE BLUE ECONOMY
- 11 Ecuador  
QUITO'S WATER FUND
- 12 El Salvador  
MUNICIPAL SYNERGY IN ACTION
- 13 Honduras  
QUESUNGUAL
- 14 Mexico  
BEYOND FOOD SECURITY
- 15 Peru  
MOUNTAINOUS COMMUNITIES DRIVING CHANGE
- 16 The Dominican Republic  
GREENING SAFE HOSPITALS
- 17 The Dominican Republic  
VULNERABILITY TO CLIMATE HAZARDS INDEX
- 18 Trinidad & Tobago  
THE GREEN MARKET AND THE FUTURE OF FARMING
- 19 Uruguay  
RENEWING ENERGY
- 20 Argentina  
A SUSTAINABLE LIFESTYLE
- 21 Brazil  
THE AGUA DOCE PROGRAMME
- 22 Costa Rica  
NAMA COFFEE
- 23 Chile  
MODEL FOREST
- 24 Grenada  
MORE THAN A SCHOOL
- 25 Jamaica  
A GENDER LENS FOR THE GREEN ECONOMY
- 26 Mexico  
ENSURING WATER FOR PEOPLE AND THE ENVIRONMENT
- 27 Panama  
ECOLOGICAL TRUST
- 28 Paraguay  
MODERNIZING FAMILY AGRICULTURE



# What do they have in common?

01

THEY ARE LONG-TERM PROCESSES

02

THEY GO BEYOND THE  
CLASSIC, LINEAR VERSION OF  
COST-BENEFIT ANALYSIS

03

THEY RECONCILE THE DIVERSE  
INTERESTS AND VIEWPOINTS

04

THEY HAVE THE POSITIVE  
LEADERSHIP OF AN INSTITUTIONAL  
OR PRIVATE STAKEHOLDER



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OBRIGADA!

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