

Forest and landscape restoration (FLR)

An active process that brings people together to identify, negotiate and implement practices that restore an agreed optimal balance of the ecological, social and economic benefits of forests and trees within a broader pattern of land uses

Costs of degradation

ts on soil fertility. Soil erosion mpacts · Habitat Landscape degradation city · Impacts LOSS O **Forest loss** Habitat loss • apacts on soil agric ty · Sc loss • Loss of of agricultural GDP Impacts on soil fertility iral pro terscarci ts • Habitat loss • Loss of agricultural productivity • Water scarcity • Impacts on soil fertility • Soil ion · Climate impacts · Habitat loss · Loss of agricultural productivity & Water scarcity. Impacts on soil fertility. Soil

FOREST AND LANDSCAPE RESTORATION (FLR)

What it costs



Bonn Challenge

2011-2020

150 million ha USD 36 billion/year New York Declaration on Forests

2014-2030

350 million ha USD 49 billion/year Land degradation neutrality (SDG Target 15.3)

2015-2030

2 billion ha USD 318 billion/year

A rough estimation for key targets, based on an estimated cost of USD 2 390 per hectare

Why invest in FLR?

BENEFITS OF FLR INVESTMENT

Socio-economic benefits

Job and income creation through restoration economy

Wood and non-wood forest products
Enhanced crop yields and food security

Resilience of livelihoods of local communities

Cultural/recreational benefits

Environmental benefits

Restoration of degraded land/ecosystems Soil conservation

Climate change mitigation and adaptation

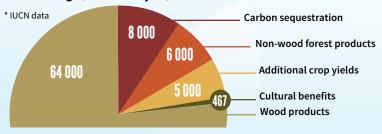
Disaster risk reduction

Improved habitats and biodiversity

Enhanced freshwater supplies

Include both in cost-benefit assessment!

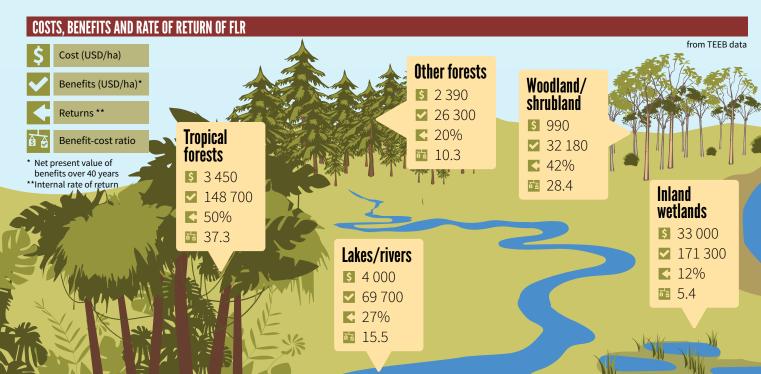
A rough assessment of the benefits delivered by the Bonn Challenge (million USD/year)*



From the estimated overall annual benefits (USD 84 billion) and the estimated yearly budget required for FLR (USD 36 billion), it appears that the global benefits of FLR are more than twice the costs.

DIFFERENT INVESTORS EXPECT DIFFERENT RETURNS





Who is investing in FLR?

FUNDING SOURCES

Climate finance

Voluntary carbon markets; REDD+; CBR; small grants; adaptation funds; Green Climate Fund; national climate funds

Private sector

Corporate social responsibility; private impact funds; institutional investors

Development cooperation

Development finance institutions; technical cooperation agencies

Environmental funds

Extrabudgetary funding; private, public, national, international sources

State budgets

FLR integrated in budgeting system; (e.g. payments for ecosystem services)

funding Crowdfunding; green bank cards

Non-traditional

and resources

public incentives for FLR

DIFFERENT TYPES OF CAPITAL

Three investment steps

Different forms of assets and capital types

Up-front investment = readiness investment

Grants, public subsidies, PES schemes, junior shares

Implementation investment/asset investment

Non-governmental

International, national

and local NGOs and foundations

funding

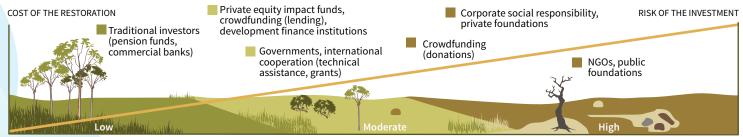
Equity (senior shares, notes), bonds, loans, guarantees, buy-back agreements

Self-sustaining financing

PES schemes, bonds, buy-back agreements

Risks and barriers for FLR investment

The more degraded the landscape, the higher the cost of restoration and the higher the risk of the investment. Different investors are willing to accept different levels of risk.



DEGRADATION LEVEL

SOME SUCCESSFUL RISK COVERAGE MECHANISMS

CAF and the Regional Initiative 20x20

The Development Bank of Latin America (CAF) is setting up a partial risk guarantee mechanism offering coverage of risks taken by private equity impact funds engaged in the Regional Initiative 20x20.

USAID and the Althelia Climate Fund

Through its Development Credit Authority, the United States Agency for International Development (USAID) provides a risk-sharing loan guarantee that will enable Althelia Climate Fund to finance hundreds of forest-based businesses in developing countries that rely on sustainably managed land use for their livelihoods.

MIGA and Ecoplanet Bamboo

The Multilateral Investment Guarantee Agency (MIGA) provides EcoPlanet Bamboo with a USD 48.8 million guarantee against its current investment in Nicaragua and a USD 8.6 million guarantee against one of its current investments in South Africa, covering the project against expropriation, war and civil disturbance for up to 15 years.

Coastal

\$ 232 700

935 400

11%

4.4

Grasslands

\$ 260

22 600

79%

75.1

Mangroves

\$ 2880

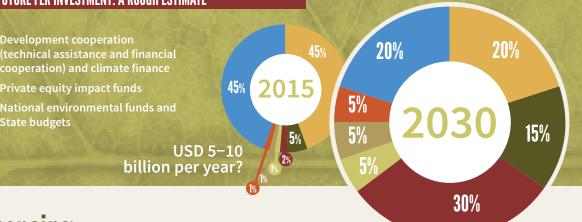
86 900

40%

26.4

Who might be investing in the future? DISTRIBUTION OF CURRENT AND FUTURE FLR INVESTMENT: A ROUGH ESTIMATE

USD 35-300 billion per year?



Traditional investors

- Corporate social responsibility
- Non-governmental
- Crowdfunding

Private equity impact funds

Development cooperation

National environmental funds and State budgets

cooperation) and climate finance

USD 5-10 billion per year?

Enabling FLR financing

INVESTORS REQUIRE SUPPORT TO COST-BENEFIT ANALYSIS

*Ex ante C*BA

Support for financing strategy Which investor is ready

to finance which costs? to purchase which benefits?

Decision-making tools

Direct benefits

Trade of landscape products and services (agriculture, forest value chains, CO₂, etc.)

Traditional investors and high-net-worth individuals

Direct costs

Implementation, production, materials, physical inputs, etc.

Traditional investors, high-net-worth individuals, development finance institutions

Indirect benefits

Indirect and intangible ecosystem services (biodiversity, scenic beauty, water)

High-net-worth individuals, NGOs, foundations, development finance institutions

Indirect costs

Legal frameworks, capacity development, opportunity costs, environmental /social costs

State, foundations, development cooperation,

Ex post CBA

CBA database

Relevant partners: ELD, TEEB, IPBES, BIOFIN, WAVES, universities

ELD: The Economics of Land Degradation Initiative; TEEB: The Economics of Ecosystems and Biodiversity; IPBES: Intergovernmental Platform on Biodiversity and Ecosystem Services; BIOFIN: Biodiversity Finance Initiative; WAVES: Wealth Accounting and the Valuation of Ecosystem Services

CREATING MARKETPLACES FOR FLR

Possible levels







Landscape

Providers of landscape goods and services

Sustainable investor

associations

Investors

Sustainable

associations

Average

deal size

USD 3-10

million

consumer

(foundations, development finance institutions, NGOs, etc.)

Marketplace

Average

size

USD 100-200

million

where investors and project promoters and implementers can interact to discuss mutual opportunities, challenges, investment plans and implementation

Facilitator/coordinator

(land-use planning ministry, national park administration, water basin agency, community association, municipality, NGO)

Possible forms



Platforms and alliances



Fairs



Physical agencies/ organizations/ administrations

INNOVATIONS FOR FLR FINANCE

Restoration bonds

- Build on the concept of green bonds
- Are linked to environmentally friendly investments
- Provide long-term financing opportunities for large-scale
- May provide incentives for small-scale landowners and farmers to restore land on a large scale, e.g. through aggregation

INNOVATIVE PRIVATE EQUITY IMPACT FUNDS

Geographic coverage

Multicontinental

Source of capital

High-net-worth individuals and family offices, development finance institutions, private companies and foundations

Expected returns

Economic valorization of agriculture, forestry and agroforestry commodities and/or high-quality carbon credits

Some examples:

* Under design

This information product is based on the discussion paper *Sustainable financing for forestand landscape restoration – Opportunities, challenges and the way forward*, published by FAO and the Global Mechanism of the UNCCD (2015). The sources of all the information and data presented here are referenced in that publication.

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