

Forest Landscape Restoration: method and opportunities

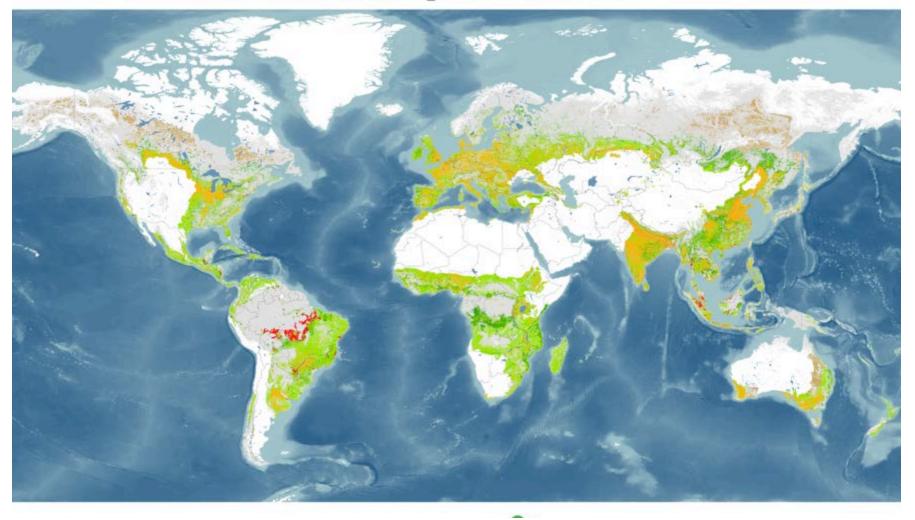
Global Forest and Climate Change Programme
WPC 17 November 2014
Dr. Gretchen Walters





A World of Opportunity

for Forest and Landscape Restoration



2 Billion hectares of land offer opportunity for restoration across the world



The Bonn Challenge has started the movement

A global goal to restore

150 million hectares

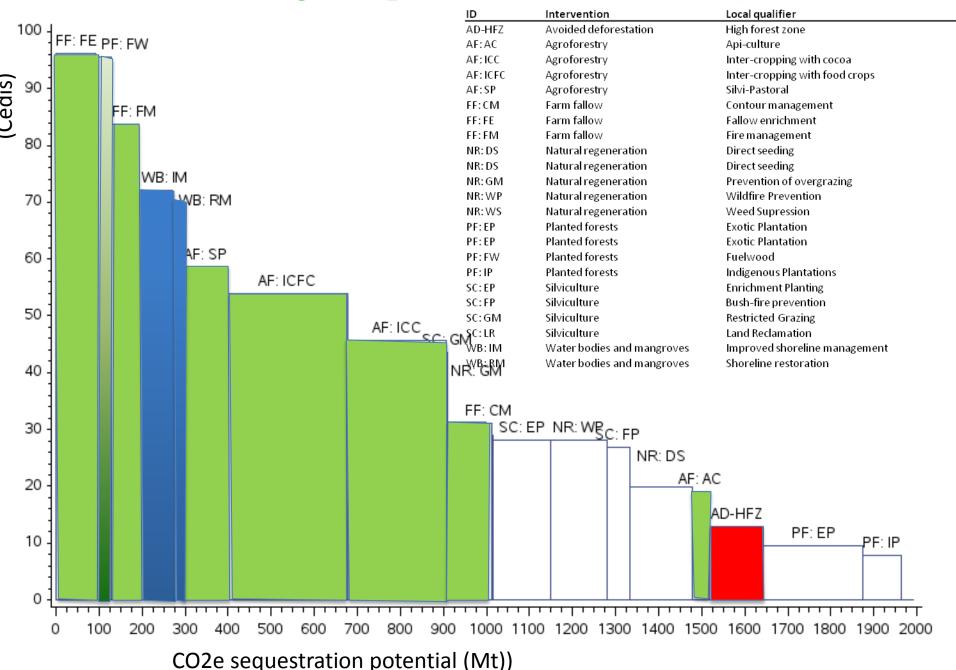
of degraded and deforested lands

by 2020

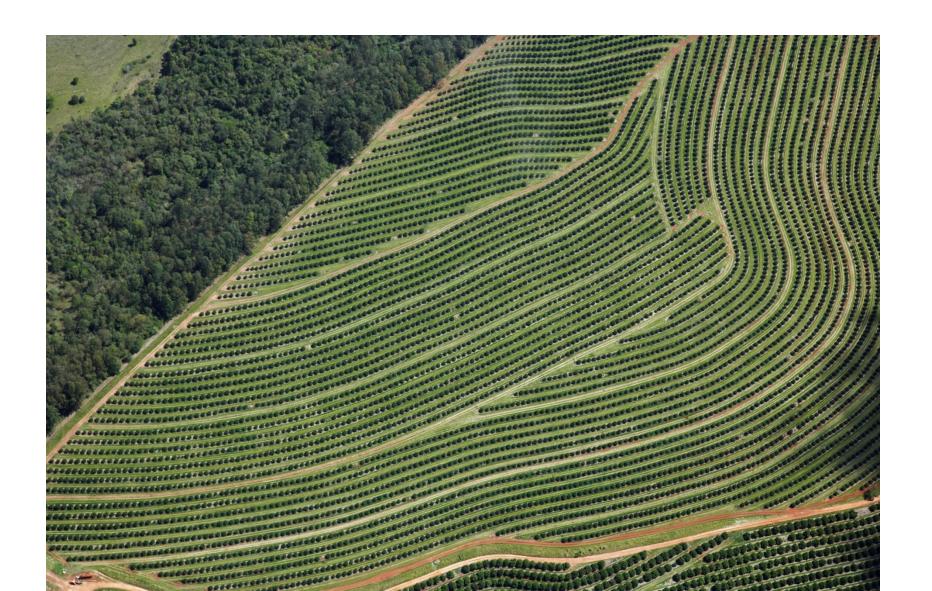
The benefits of successful restoration will be tremendous



Understanding the potential net return (Ghana)



But "more trees" will not necessarily bring society the full range of benefits natural lands provide



Diversity delivers a broader range of forest goods and services...



Across different land uses



For different social groups



But only if we work to restore at a sufficient "landscape" level

Forest Landscape Restoration is an approach that delivers ecological integrity and human well-being through multi-functional landscapes

It involves

Bringing 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.



A restored forest landscape incorporates many diverse land uses - based on the context of the land and the needs of the community



But we need to emphasize & quantify all the benefits

Example:

The former "Desert of Tanzania" now benefits from

- 500,000 ha of new forests
- A further 1.5 million ha of new agroforestry
- Improved food security
- More children stay in school
- Women are empowered
- USD 14 per person per month compared to national monthly avg. of USD 8.50
- 42 Mt CO2e sequestered





To achieve this vision we need to:-

overcome the myths that landscape approaches cost too much and take too long:



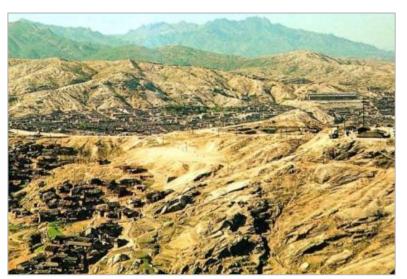
Costa Rica – 25 years

Pohang, Gyeongbuk Province, Republic of Korea - 2000

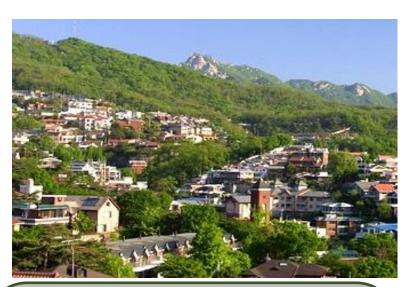


Between 1953 and 2010; economy x 300; population doubled; National forest growing stock has increased x20 fold!

To achieve this vision we need to: Overcome the myths that restoration costs too much or takes too long







Investment (budget in 2011)

KFS USD 1.4 bil Local USD 0.6 bil governments

Total USD 2.0 bil



Benefits

Forest products 4.7 bil Public benefits 70.0 bil Reduced medical costs 2.4 bil Landscaping & carbon NA

Total (approx.) USD 100 bil

Republic of Korea – 50 years

GLOBAL PARTNERSHIP ON FOREST LANDSCAPE RESTORATION



- CBD Secretariat of the Convention on Biological Diversity
- CIFOR Centre for International Forest Research
- FAO UN Food and Agriculture Organization
- IUCN International Union for Conservation of Nature
- IUFRO International Union of Forest Research Organizations
- ITTO International Tropical Timber Organization
- Tropenbos International
- UNCCD Global Mechanism, Convention to Combat Desertification
- UNFF Secretariat of the United Nations Forum on Forests
- UNEP World Conservation Monitoring Centre
- World Bank/PROFOR
- Wageningen Centre for Development Innovation
- WRI World Resources Institute
- China
- El Salvador
- Germany
- Ghana
- Rwanda

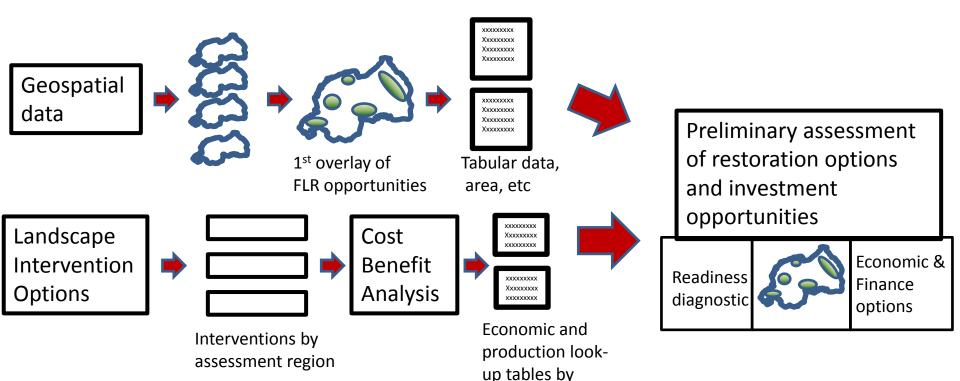
- The Netherlands
- South Africa
- Switzerland
- United Kingdom
- United States

Restoration Opportunities Assessment Methodology



www.iucn.org/ROAM

Securing, analyzing and processing data



region

Analysis of institutional, financing and policy arrangements

Broad-based stakeholder consultation, revision and verification

Preliminary assessment of restoration options and investment opportunities

Readiness diagnostic



Economic & Finance options









As required, additional geospatial and economic analysis



restoration options and investment opportunities

Final assessment of

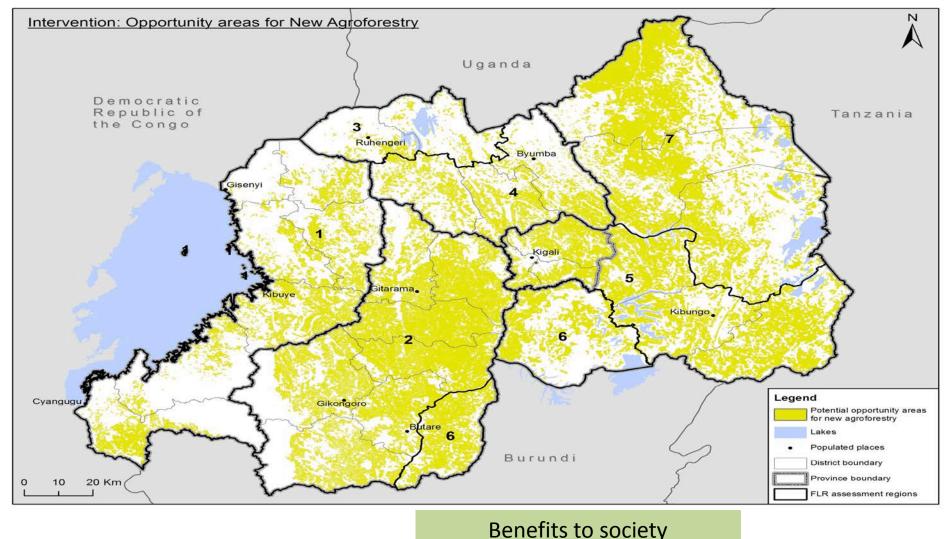




Economic & Finance options

Revise and iterate the finding and recommendations based on consultations and new analysis





Benefits to society

Benefits to farmers **Annual woody Annual crop value Annual reduced Additional carbon Average Return on** biomass value (Rwf/ha) (t/ha) erosion (t/ha) Investment (Rwf/ha) -99,000 to 189,000 28% 75,665 to 132,980 22 to 27 251 to 449

Integrated landscape approach

Natural Forest

Protective Forest

Woodlots

Agroforestry: Flat land

Agroforestry: Sloping land

Forest

Increase forest cover to 30%

Energy

Electricity to 35%

Water

100% access to clean water

Food

Agri production to 2200 kcal/day

Economy

Poverty level to 20%
Per capita GDP to US\$1,240

