



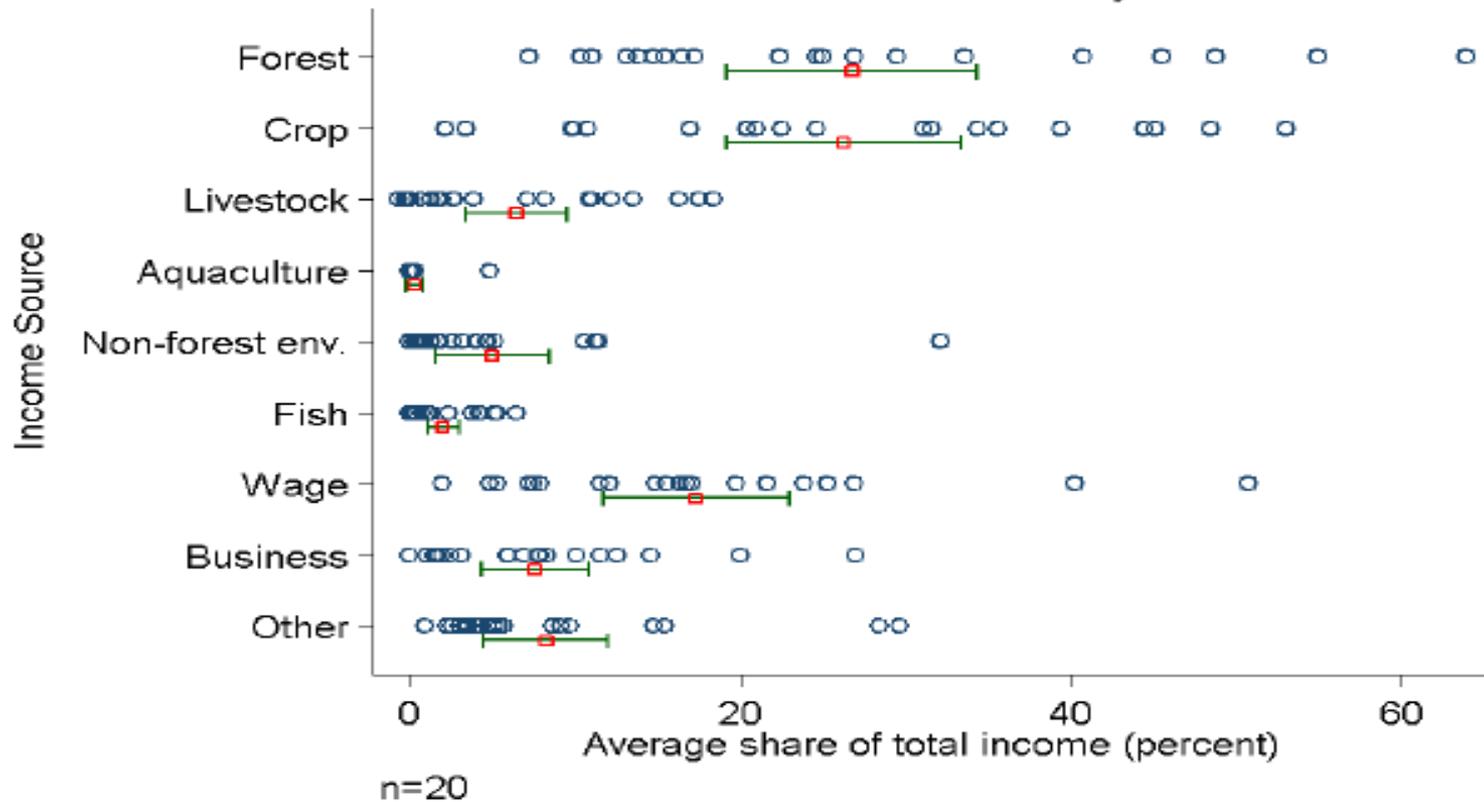
# Applying the Landscape Approach for the Triple Win

Stewart Maginnis  
Global Director  
Nature-Based Solutions Group  
IUCN



# Why Forests and Trees matter?

## Share of Total Income by Source



**..but it is just not a question of more trees!**



# ...diversity underpins social and economic resilience



Across land use



Across social groups

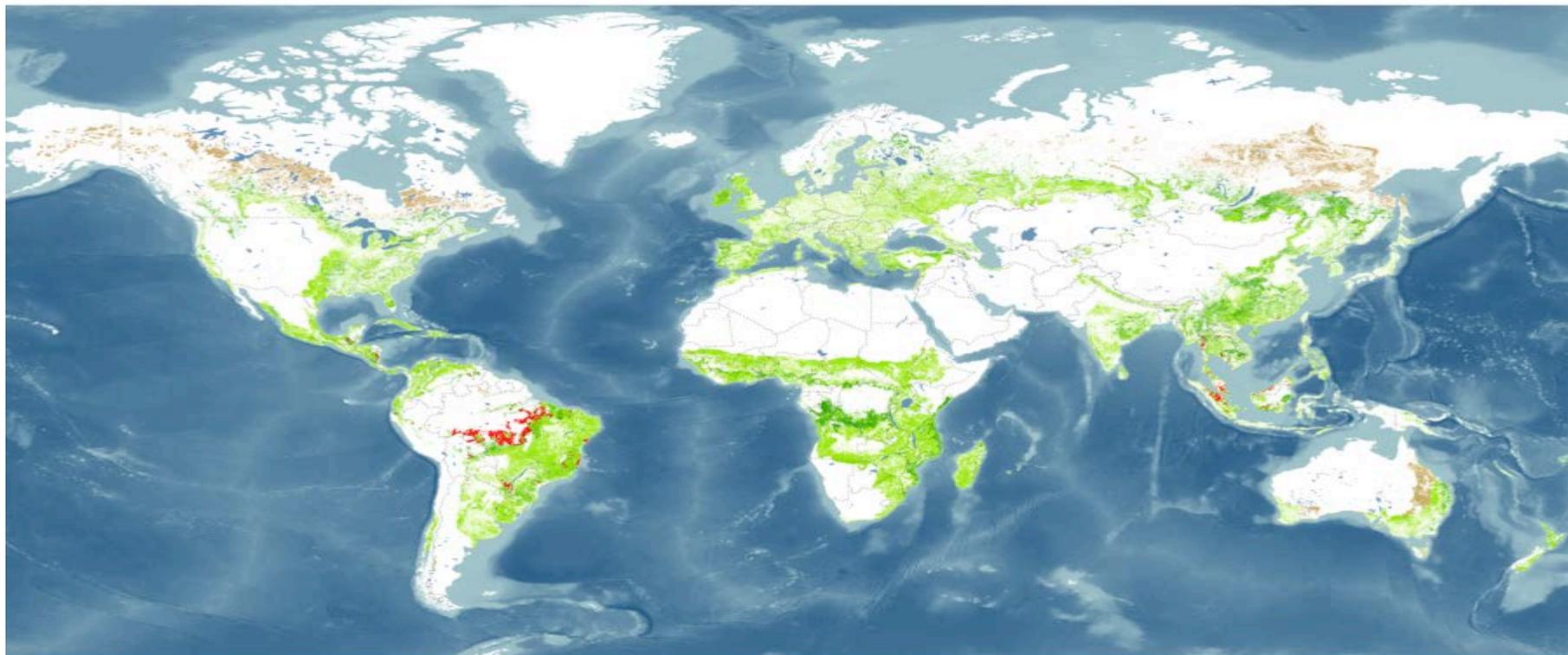


Across goods and services



Forests and trees provide multiple benefits but landscapes deliver them

# A World of Opportunity for Forest and Landscape Restoration



## FOREST AND LANDSCAPE RESTORATION OPPORTUNITIES

-  Wide-scale restoration
-  Mosaic restoration
-  Remote restoration

## OTHER AREAS

-  Recent tropical deforestation



# Landscape restoration is already proven

Pohang, Gyeongbuk Province, Republic of Korea - 2000



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



## The Bonn Challenge

Restore 150 million hectares of lost forests and degraded lands by 2020  
Thereby delivering on existing global commitments

Formal commitments for almost 20 million hectares and another 20 million under discussion

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# Meeting the Bonn Challenge: Economic Benefits



What is the likely economic impact of achieving the Bonn Challenge?

**\$84 billion per year in net benefits**

**Sequester an additional 1 GtCO<sub>2</sub>e per year**

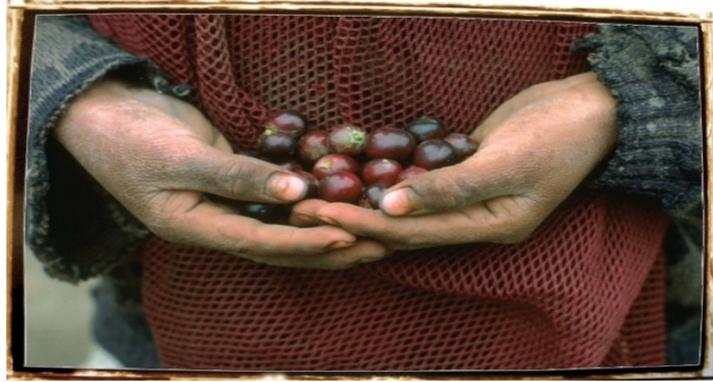
**Reduce the current “emissions reduction gap” by between 11% to 17%.**

**Increase crop yields by 30% on up to 50 million hectares.**



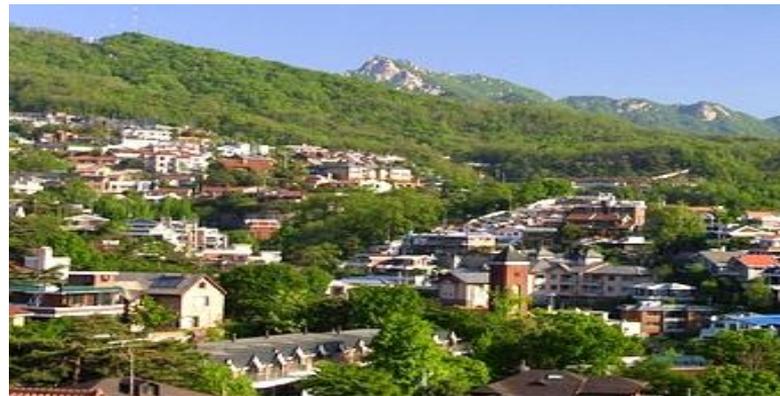
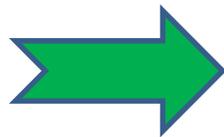
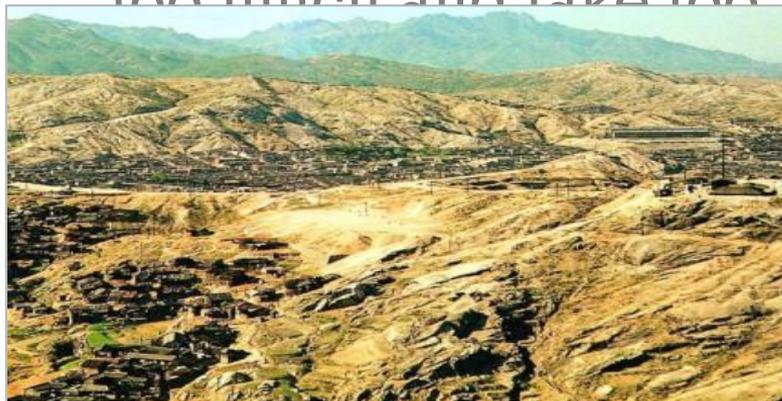
# To achieve this vision we need to:-

Avoid blueprints - there is no “one-size fits all” solution



# To achieve this vision we need to:-

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



## Investment (budget in 2011)

KFS	USD 1.4 bil
Local governments	USD 0.6 bil

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

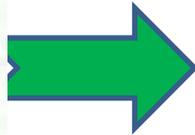
# Republic of Korea – 50 years

# To achieve this vision we need to:-

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



25% forest cover

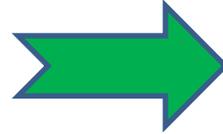


45% forest cover

## Costa Rica – 25 years

# To achieve this vision we need to:-

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



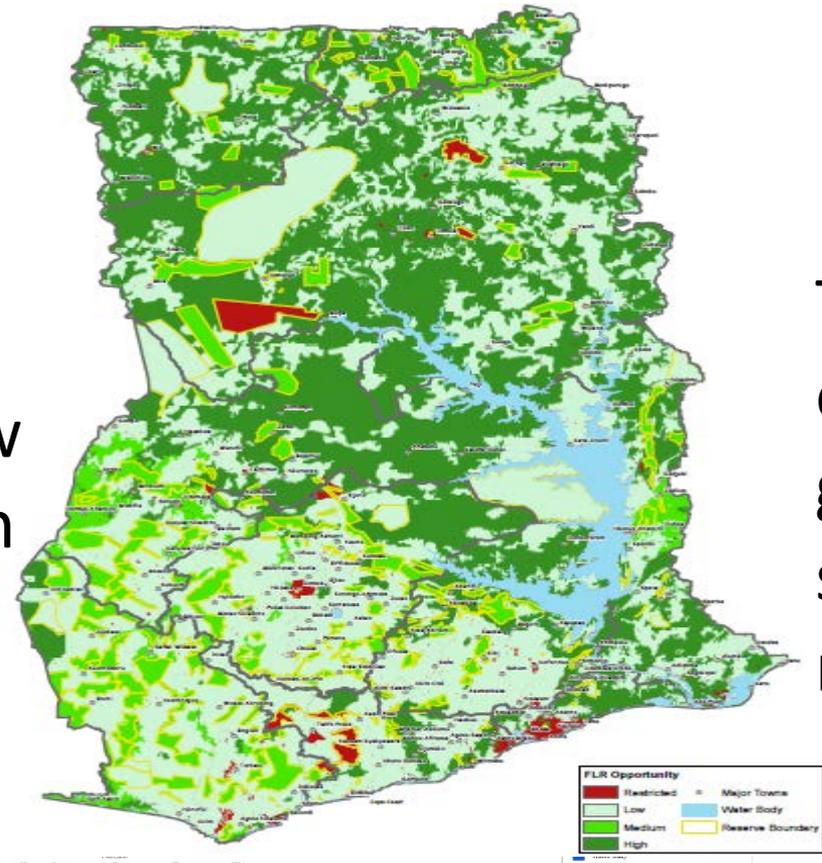
Less than 1000  
hectares of woodland

500,000 ha of ngitili &  
1.5 million ha of  
agroforestry

**Shinyanga, Tanzania – 15 years**

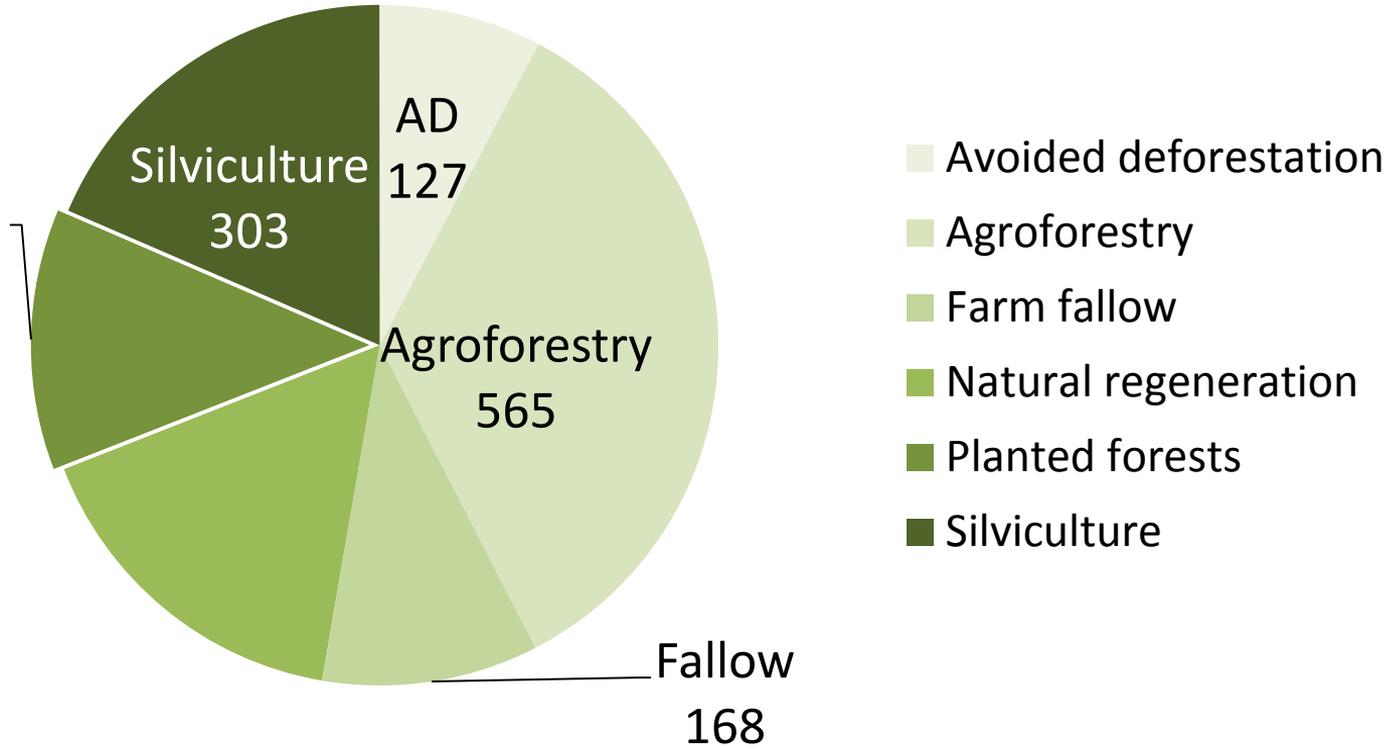
# Integrating a vision of the triple win

From where the woody biomass currently is concentrated:  
To where the new opportunities can be found.



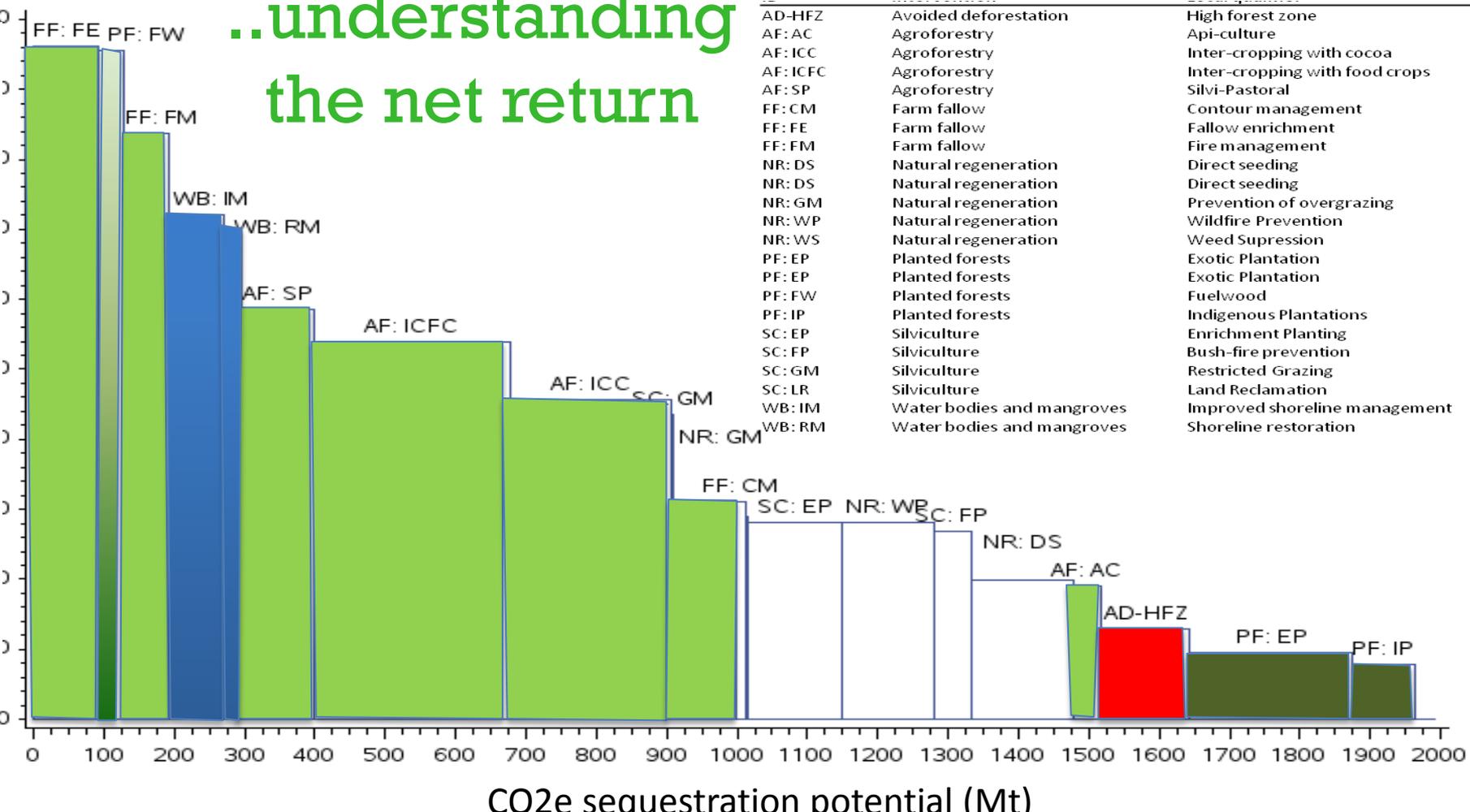
To where key ecosystem goods and services are missing

# Mitigation potential by intervention type in Ghana ( $MtCO_2e$ )



# Ghana Landscape Restoration Carbon Abatement Curve: All Regions

..understanding  
the net return



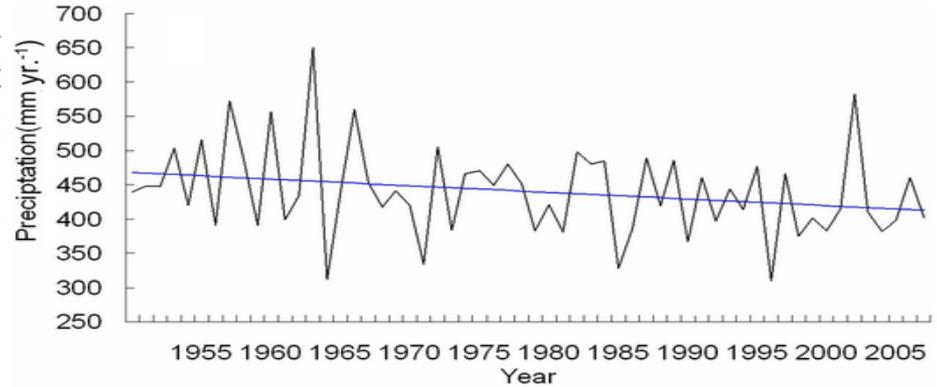
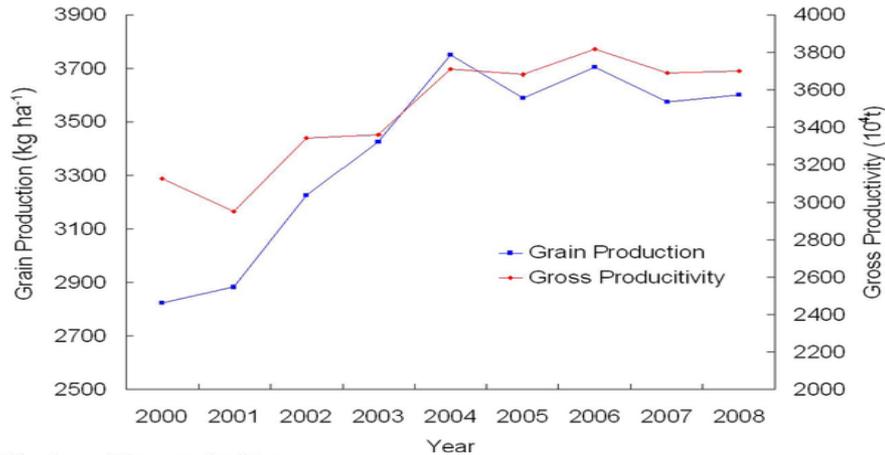
- AD-HFZ: Avoided deforestation
- AF: AC: Agroforestry
- AF: ICC: Agroforestry
- AF: ICFC: Agroforestry
- AF: SP: Agroforestry
- FF: CM: Farm fallow
- FF: FE: Farm fallow
- FF: FM: Farm fallow
- NR: DS: Natural regeneration
- NR: GM: Natural regeneration
- NR: WP: Natural regeneration
- NR: WS: Natural regeneration
- PF: EP: Planted forests
- PF: FW: Planted forests
- PF: IP: Planted forests
- SC: EP: Silviculture
- SC: FP: Silviculture
- SC: GM: Silviculture
- SC: LR: Silviculture
- WB: IM: Water bodies and mangroves
- WB: RM: Water bodies and mangroves
- High forest zone
- Api-culture
- Inter-cropping with cocoa
- Inter-cropping with food crops
- Silvi-Pastoral
- Contour management
- Fallow enrichment
- Fire management
- Direct seeding
- Prevention of overgrazing
- Wildfire Prevention
- Weed Suppression
- Exotic Plantation
- Exotic Plantation
- Fuelwood
- Indigenous Plantations
- Enrichment Planting
- Bush-fire prevention
- Restricted Grazing
- Land Reclamation
- Improved shoreline management
- Shoreline restoration

# Could the landscape approach help accelerate REDD+

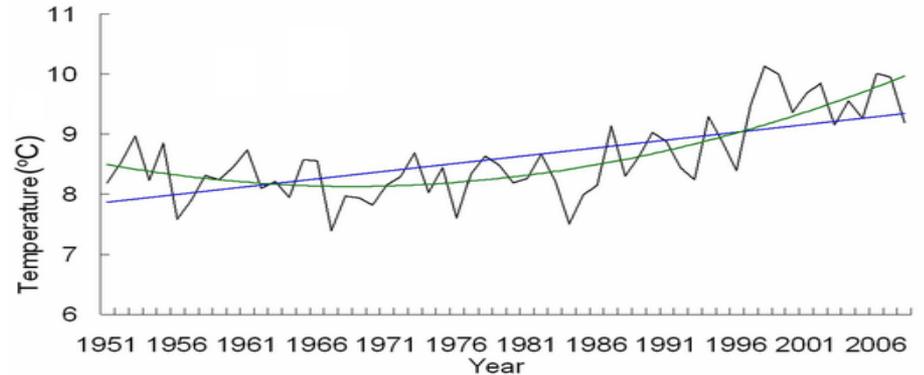
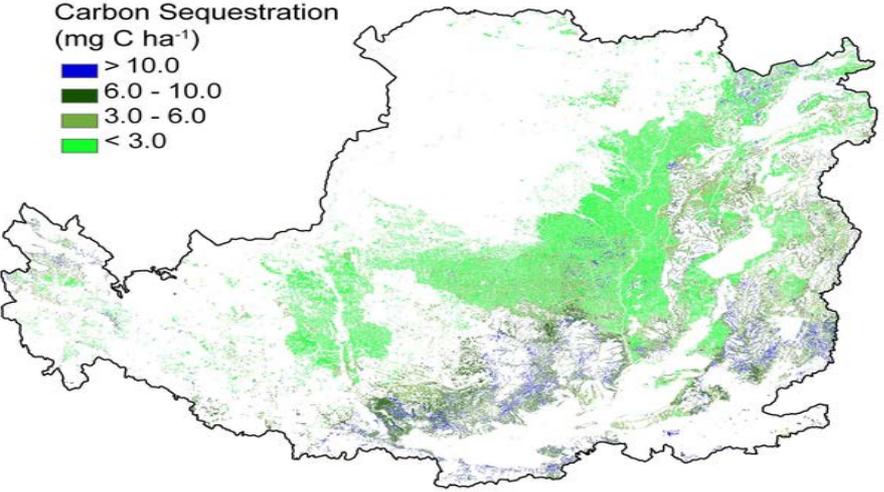
- Same mitigation impact through carbon intensive landscape management
- Livelihoods– not carbon - at the centre of intervention
- Proving additionality and permanence easier
- Requires local decisions – in-built safeguards
- Based on established products–more likely to



# Achieving a triple win in the Loess plateau



## Carbon Sequestration ( $\text{mg C ha}^{-1}$ )



FROM: Lü et al. (2012) A Policy-Driven Large Scale Ecological Restoration: Quantifying Ecosystem Services Changes in the Loess Plateau of China



# Concluding thoughts:

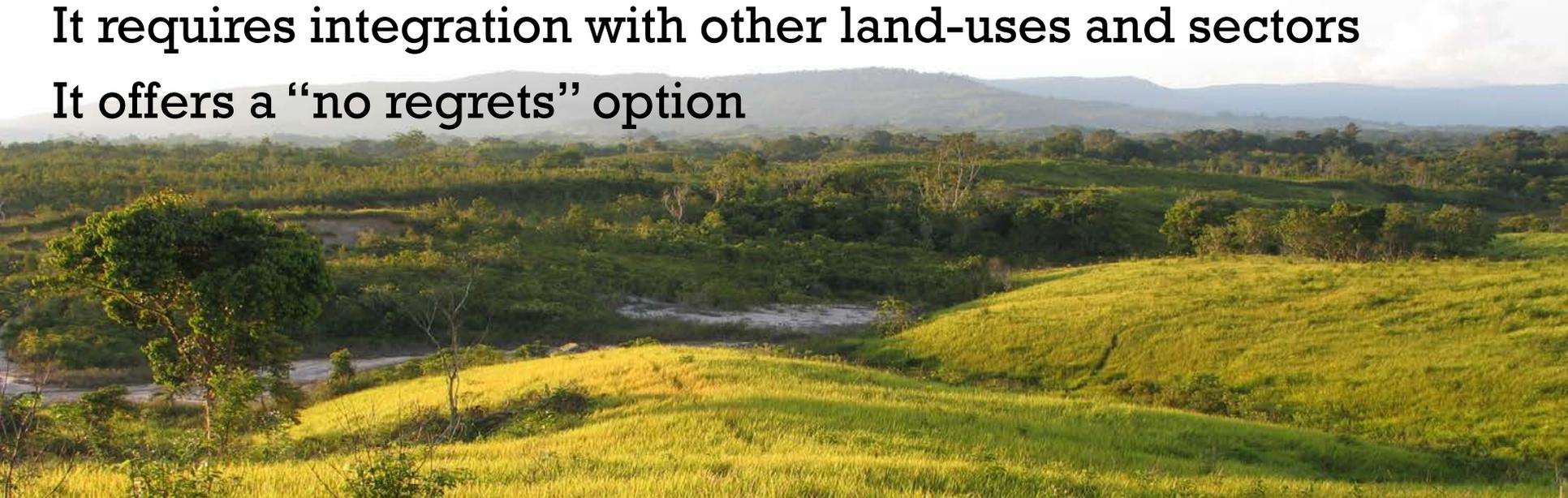
The Landscape Approach is established and proven

It can bring about dramatic change in relatively short periods

It delivers significant net benefits – a triple win!

It requires integration with other land-uses and sectors

It offers a “no regrets” option





**Thank  
you!**

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