

# ***Biodiversity in the SDGs: Essential Solutions from Nature***

*Dr Mark Smith*

Director

IUCN Global Water Programme

Gland, Switzerland



# Biodiversity is a Development Issue



**Water**



**Food**



**Poverty Reduction**



**Governance**

# Nature-Based Solutions



- Sustainable Water for All
- Food & Nutritional Security
- Poverty Reduction & Livelihoods
- Jobs
- Good governance
- Economic Development

Ecosystems are infrastructure –

part of the *“stock of facilities, services and installations needed for the functioning of a society and economy.”*



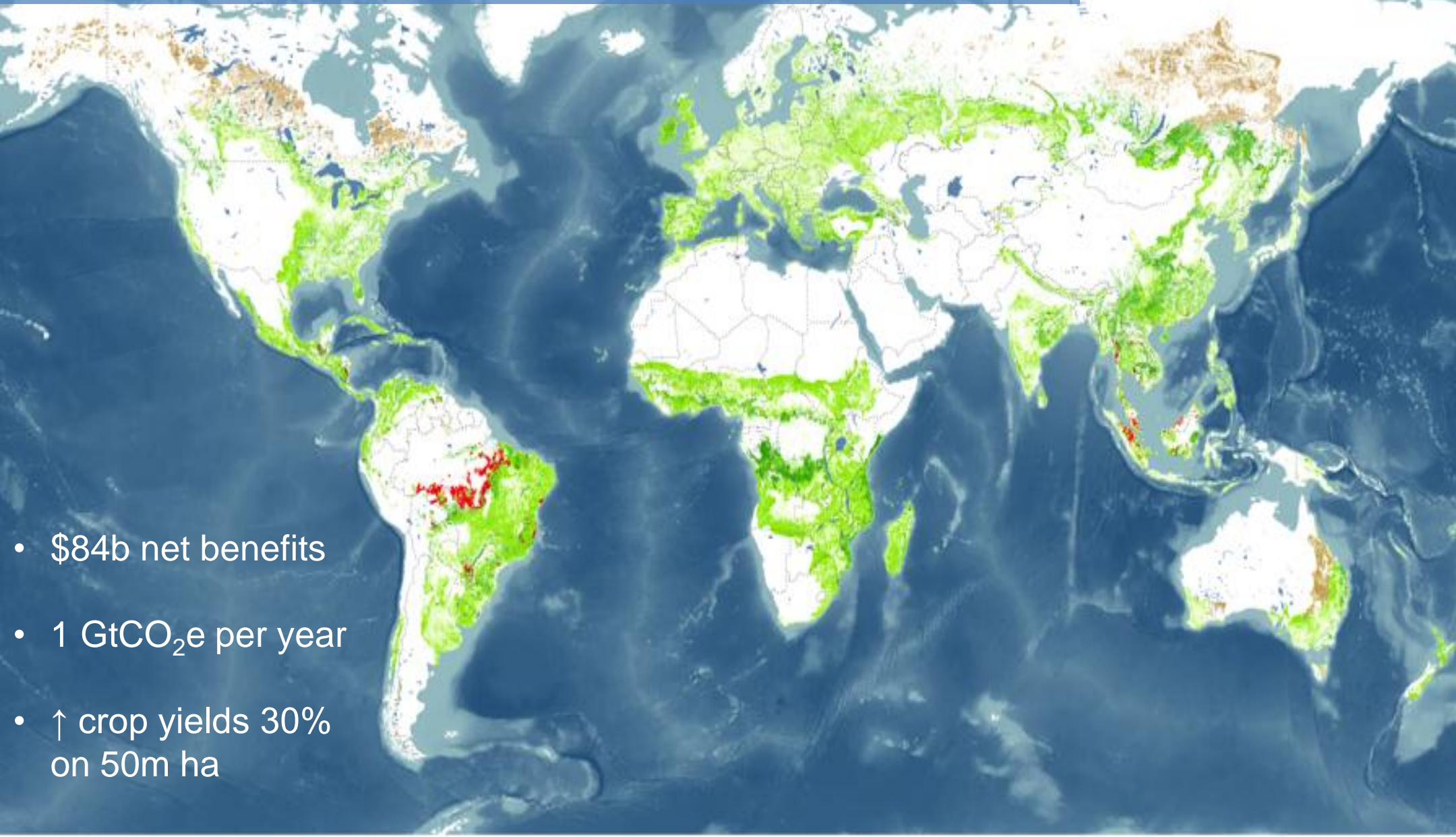
# Results: Shinyanga, Tanzania



Less than 1000 ha of

of ngitili  
agroforestry

# The Bonn Challenge: “Restore 150 million ha of lost forests and degraded lands by 2020”



- \$84b net benefits
- 1 GtCO<sub>2</sub>e per year
- ↑ crop yields 30% on 50m ha



## *Enhance the benefits for all from biodiversity and ecosystem services in a just world that values and conserves nature*

GOAL

- The contribution of biodiversity to poverty reduction enhanced through conservation and restoration of degraded ecosystems
- Water-related ecosystem services are restored and safeguarded

- Ensure regulatory frameworks for water integrate the water quality and quantity needs of biodiversity
- Reduce the illegal wildlife trade to near zero and ensure all legal use and trade of wildlife products lies within sustainable limits

- The contributions of ecosystems to agriculture, aquaculture and forests are enhanced to increase food availability, access and utilisation
- All fisheries are managed and harvested sustainably

- Loss, degradation and fragmentation of all natural habitats reduced
- Invasive species controlled and eradicated in impacted ecosystems

Indicative Targets