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**Global Legislators Organization
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**CAPITALS
COALITION**

West Africa Platform on Natural Capital



Natural Eco Capital



**Global Programme on
Nature for Development**

A Virtual Series on

Natural Capital Approach, REDD+ Governance and Nature-Based Solutions

Speakers



Ruud Jansen,
Executive Secretary,
Gaborone Declaration for
Sustainability in Africa



Rt. Hon. Sam Onuigbo FCIS, FNIM,
President, GLOBE Nigeria



Jamison Ervin, Ph.D,
Manager, Global Programme
on Nature for Development,
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Dr. Moses Ama
National Coordinator,
REDD+ Programme, Nigeria



Mark Gough,
CEO, Capitals Coalition

Moderator



Eugene O. Itua, Ph.D,
Convener,
West Africa Regional Platform,
Natural Capital Coalition

Host



Hannah Brooke
Regional Development Lead,
Capitals Coalition

Enhancing National Capacity on Natural Capital Approach and REDD+ Governance

Thursday July 23, 2020

14:30 – 16:00PM GMT

Register here: <https://bit.ly/3h9lQND>



Nature-based solutions, climate action and the Sustainable Development Goals



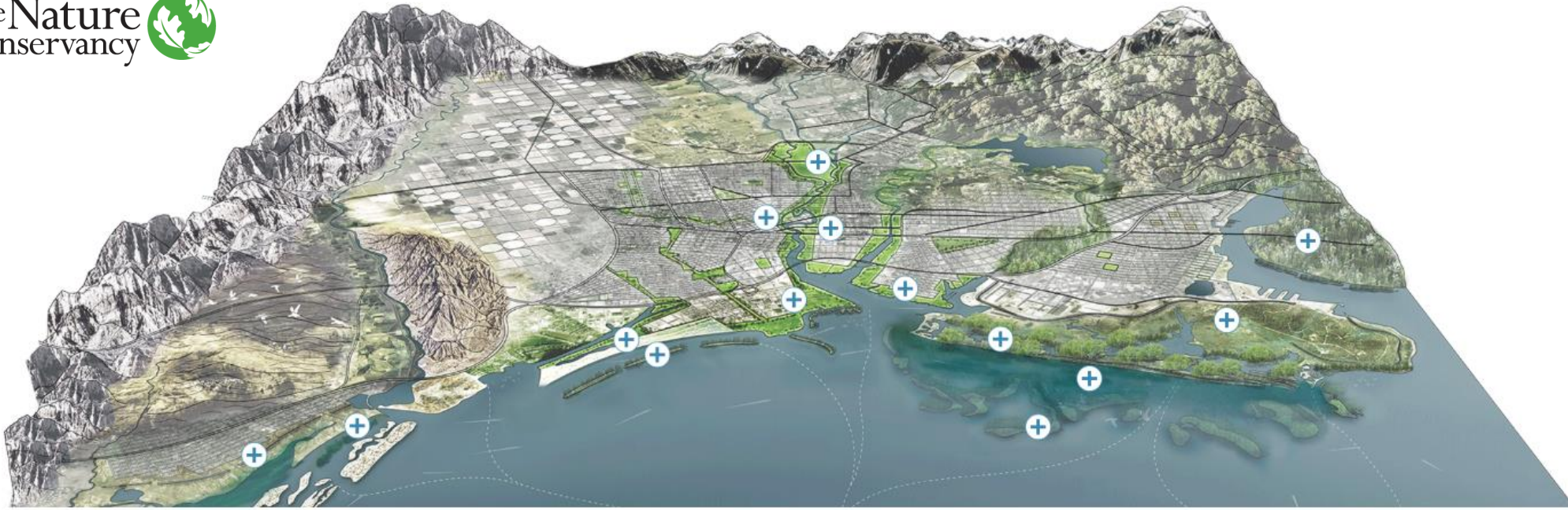
What are nature-based solutions, who is advocating for them and why?



Nature-based Solutions: “Actions to protect, sustainably manage, and restore natural or modified ecosystems, that address societal challenges effectively and adaptively, simultaneously providing human well-being and biodiversity benefits”

IUCN Nature-based Solutions





COASTAL FLOODING & EROSION

RIVER FLOODING & EROSION

URBAN STORMWATER FLOODING

“**Nature-based solutions** use natural systems, mimic natural processes, or work in tandem with traditional approaches to address these specific hazards. Communities across the country— along rivers or coasts, large or small, rural or urban— can incorporate nature-based solutions in local planning, zoning, regulations, and built projects to help reduce their exposure to flood and erosion impacts,



Urban regeneration through nature-based solutions



Nature-based solutions for improving well-being in urban areas



Nature-based solutions for increasing the sustainable use of matter and energy



Increasing carbon sequestration through nature-based solutions



Establishing nature-based solutions for coastal resilience

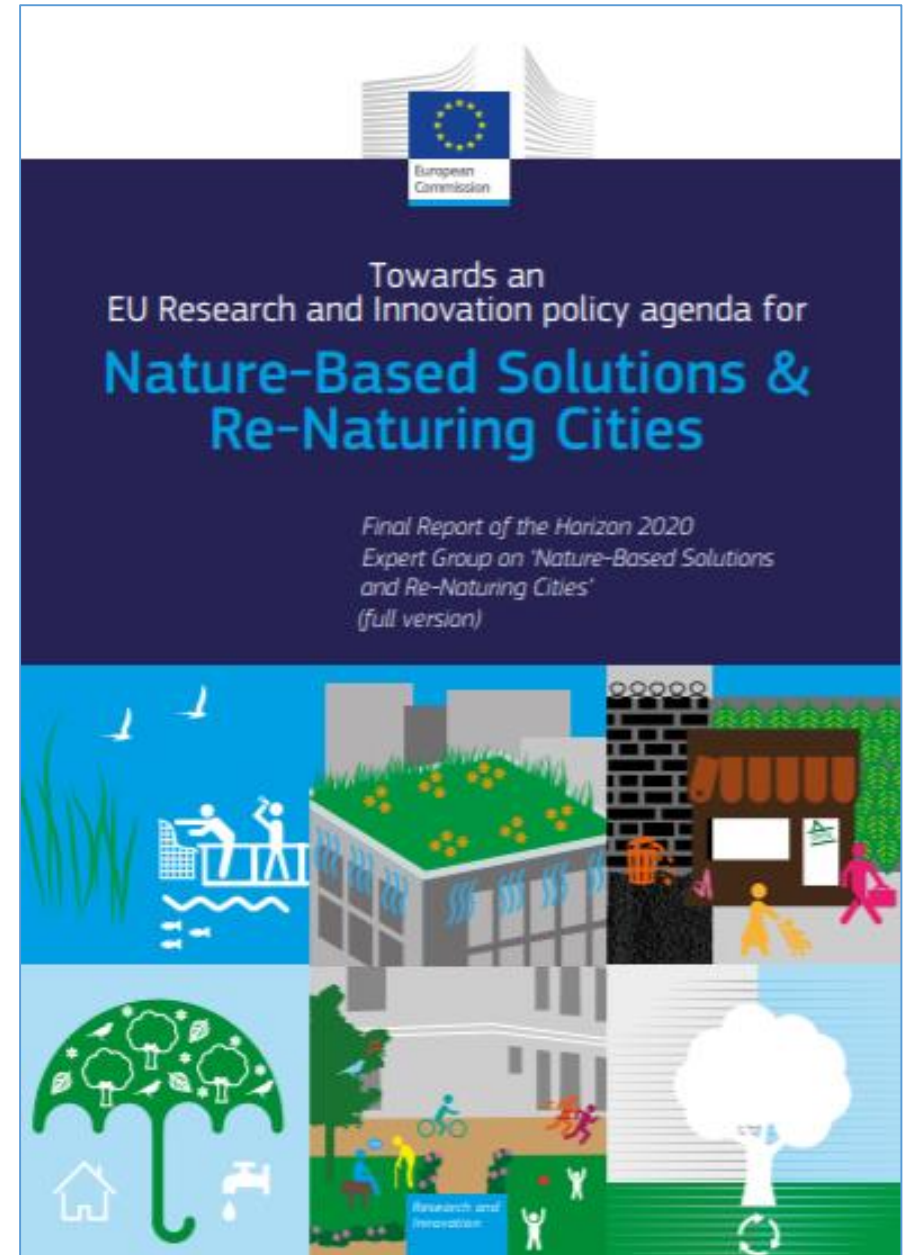


Multi-functional nature-based watershed management and ecosystem restoration



Nature-based solutions for enhancing the insurance value of ecosystems

Nature-based Solutions: “Solutions inspired and supported by nature, which are cost-effective, simultaneously provide environmental, social and economic benefits and help build resilience,



United Nations Development Programme



TACKLING NEXUS ISSUES IN 2019: Climate Change, Poverty and Inequality, and Migration and Displacement

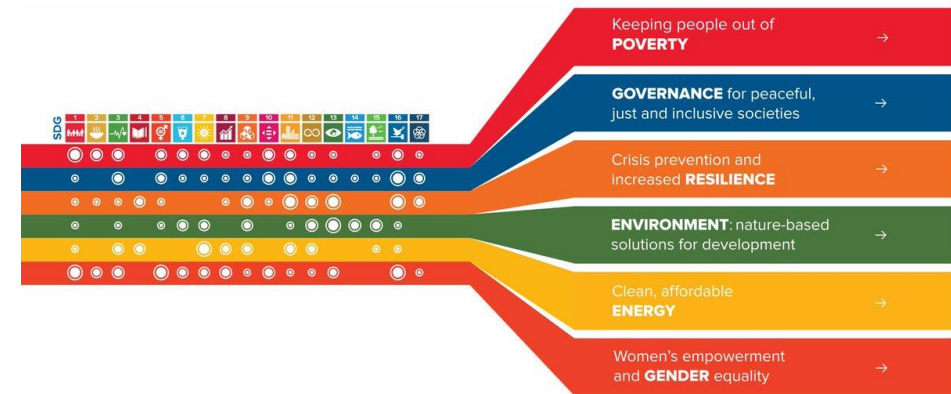
SUSTAINABLE DEVELOPMENT GOALS

Sustainable Development Goals [VIEW THE PLAN](#)

UNDP Strategic Plan

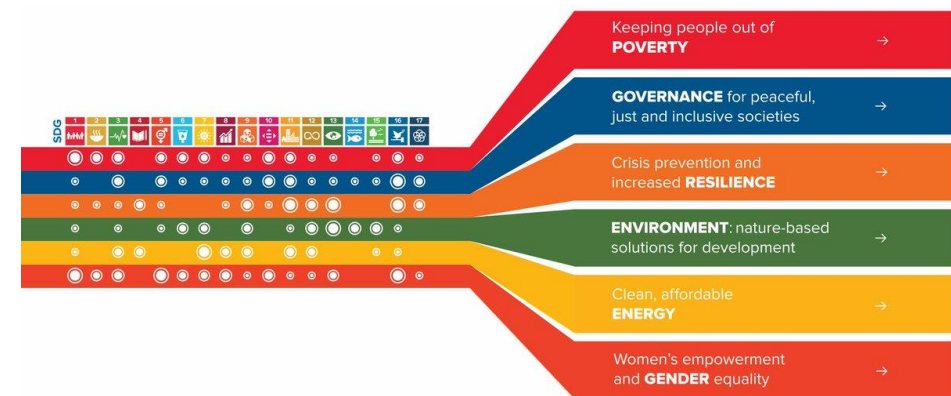
The Strategic Plan 2018-2021 sets out the direction for a new UNDP, optimized to help countries achieve the 2030 Agenda for Sustainable Development.

[View the Strategic Plan](#)



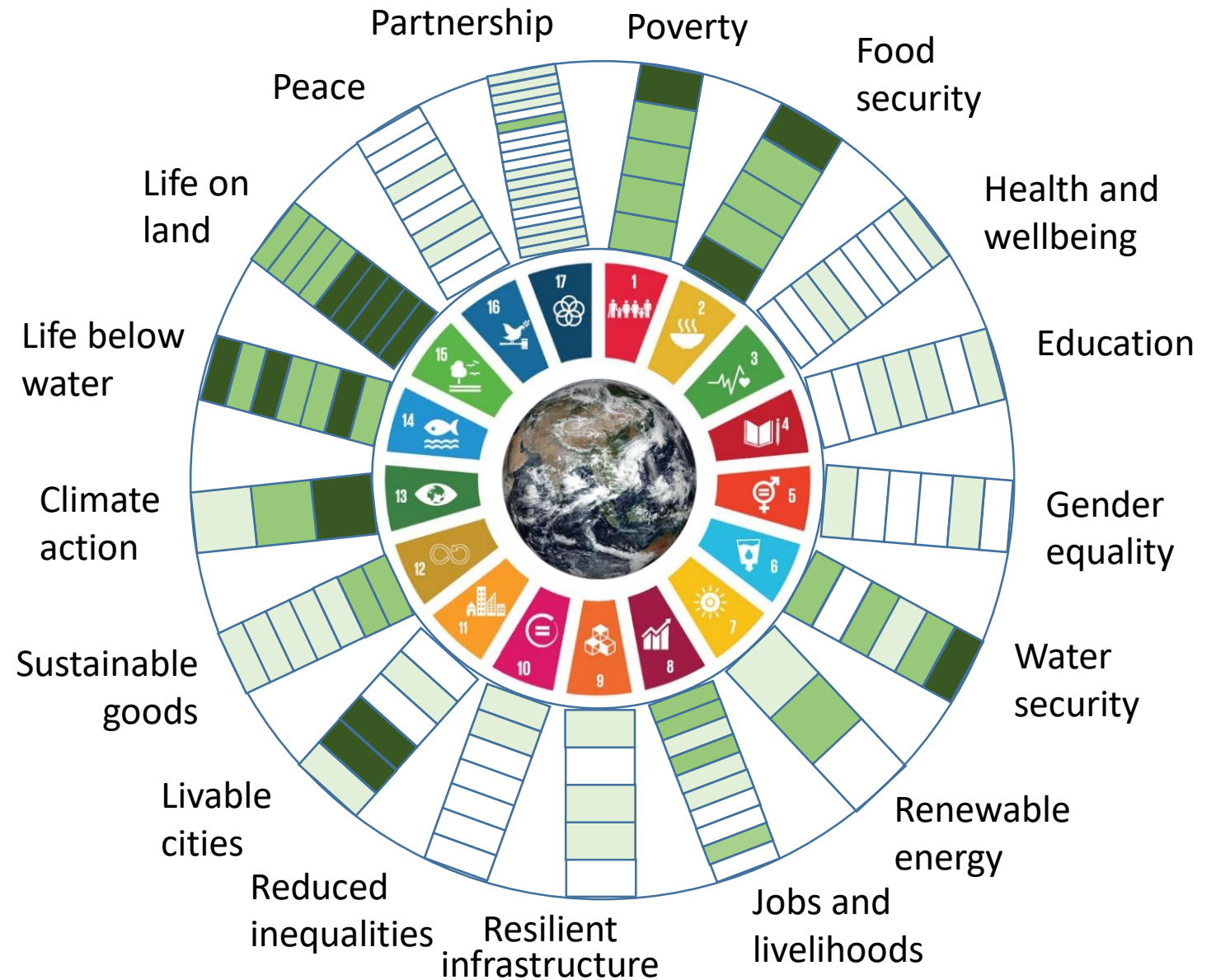
Nature-based solutions:

actions to **protect**, sustainably **manage** and/or **restore ecosystems**, while simultaneously contributing to the achievement of **multiple sustainable development goals**, including national goals for climate, food security, water security, disaster risk reduction and livelihoods, among others.



Nature-based solutions are indivisible with half of the SDG targets.

Nature-based solutions ensure that **no one is left behind**, and they are a safety net for the 3+ billion people who depend on nature for their livelihoods

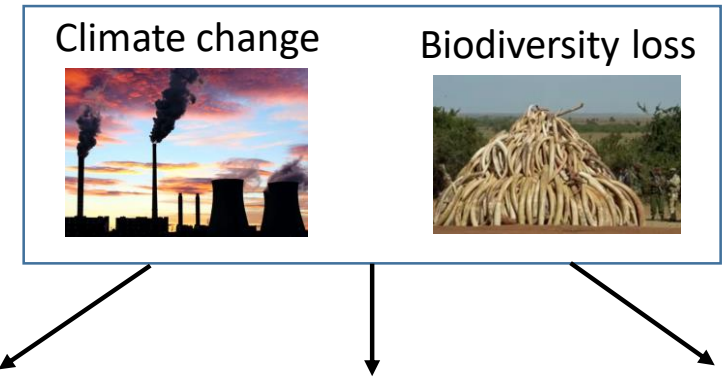
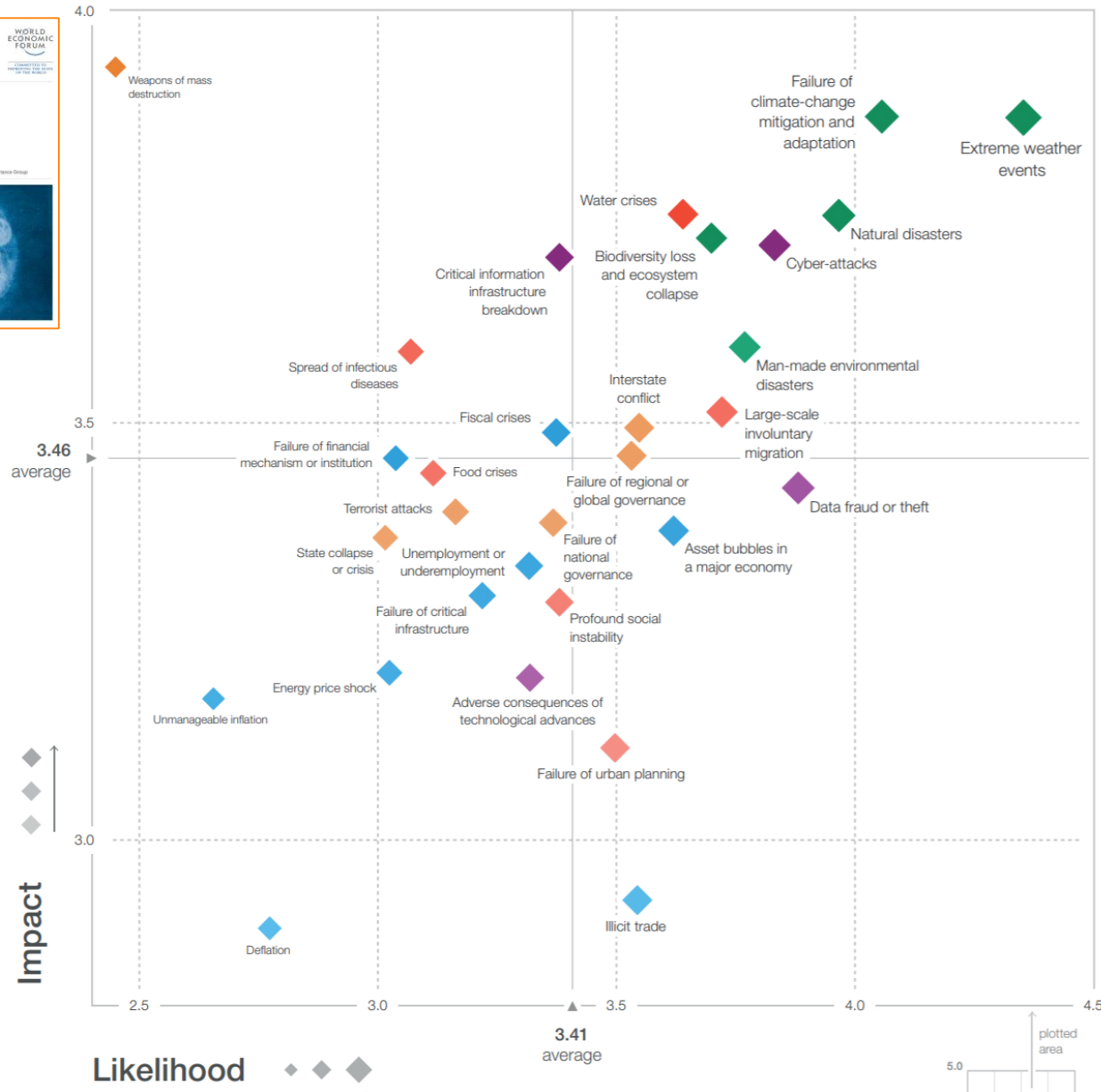




Why nature-based solutions for climate mitigation, adaptation and resilience?

Nature and climate nexus

Climate change and biodiversity loss result in profound societal risks, as shown in the 2019 Global Environmental Risks Report by the World Economic Forum. Together they create two synergistic drivers with cascading impacts across the world.

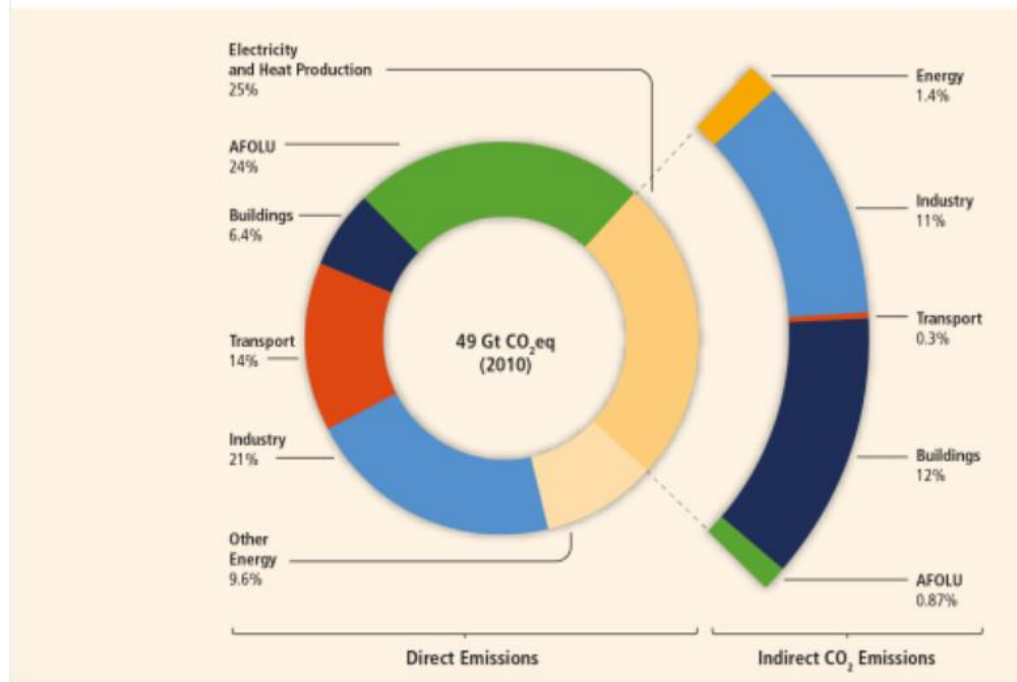


Water crises	Natural disasters	Food crises
Interstate conflict	Social instability	Involuntary migration

Nature and climate nexus

Agriculture, forestry and other land uses accounts for a quarter of greenhouse gas emissions

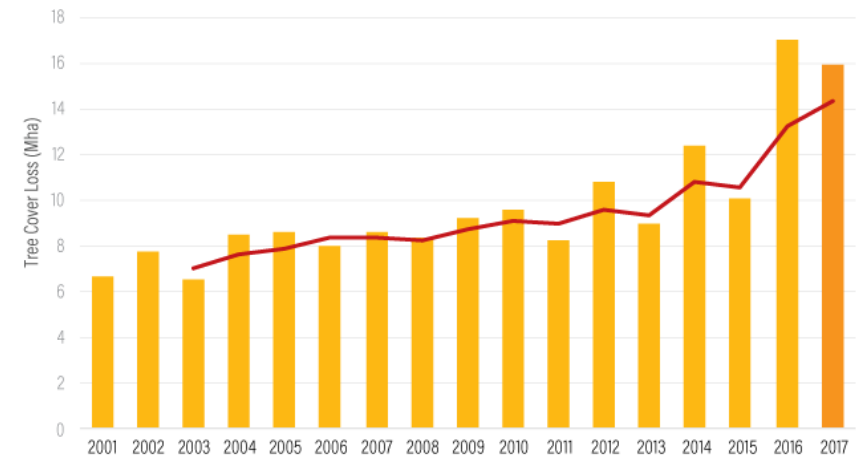
Greenhouse Gas Emissions by Economic Sectors



<https://www.epa.gov/ghgemissions/global-greenhouse-gas-emissions-data>

The last 5 years were the worst on record for deforestation, driven by soy, beef, palm, timber

Tropical Tree Cover Loss



— Three-year moving average. The three-year moving average may represent a more accurate picture of the data trends to uncertainty in year-to-year comparisons. All figures calculated with a 30% minimum tree cover canopy density.



WORLD RESOURCES INSTITUTE

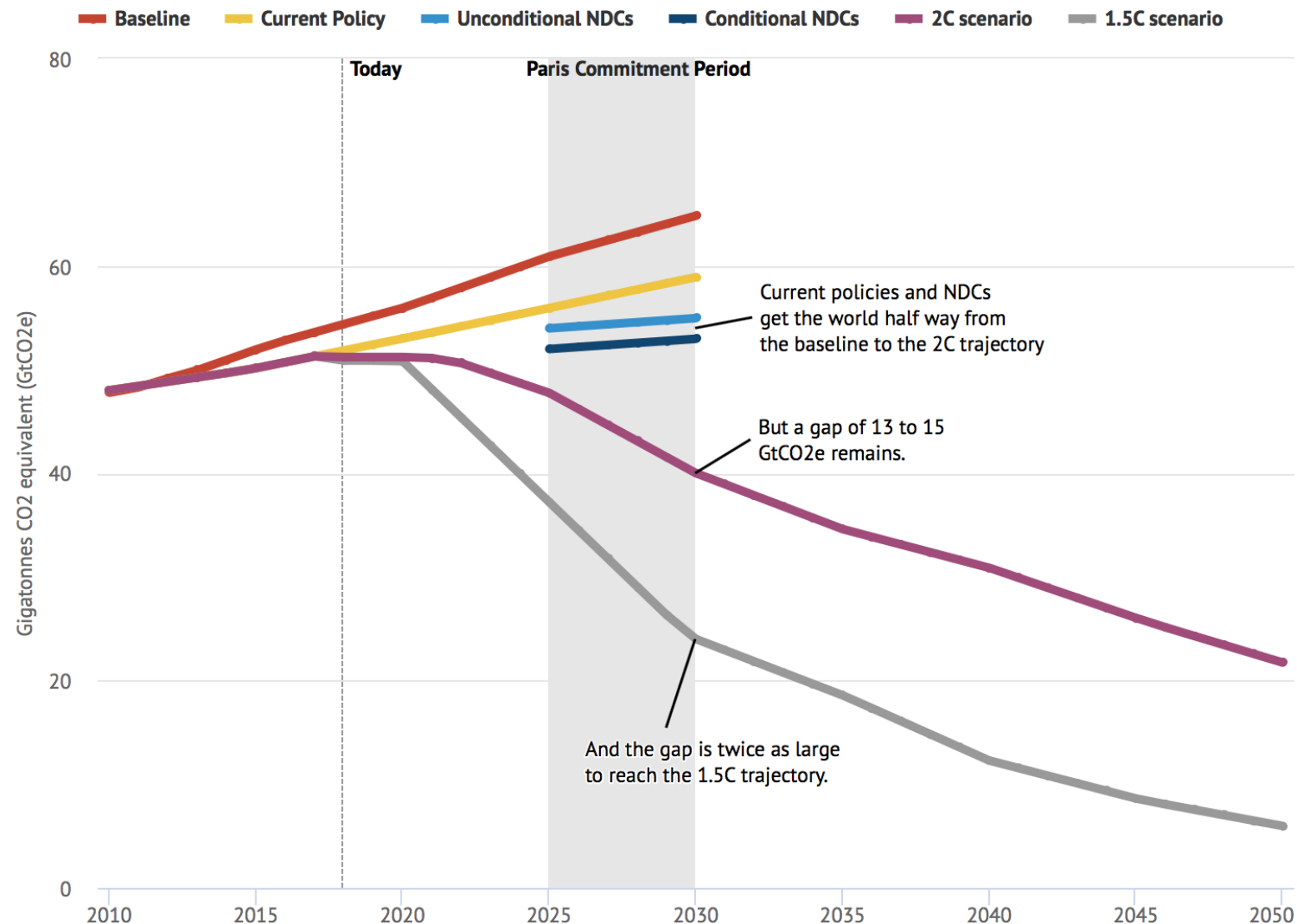
<https://www.wri.org/blog/2018/06/deforestation-accelerating-despite-mounting-efforts-protect-tropical-forests>

Current NDCs and the Emissions Gap

Current NDC emission reductions **need to be tripled to limit warming to well below 2C**

Limiting warming to below **1.5C** would require **existing commitments to be “increased around fivefold”**

UNEP Emissions Gap Report 2018



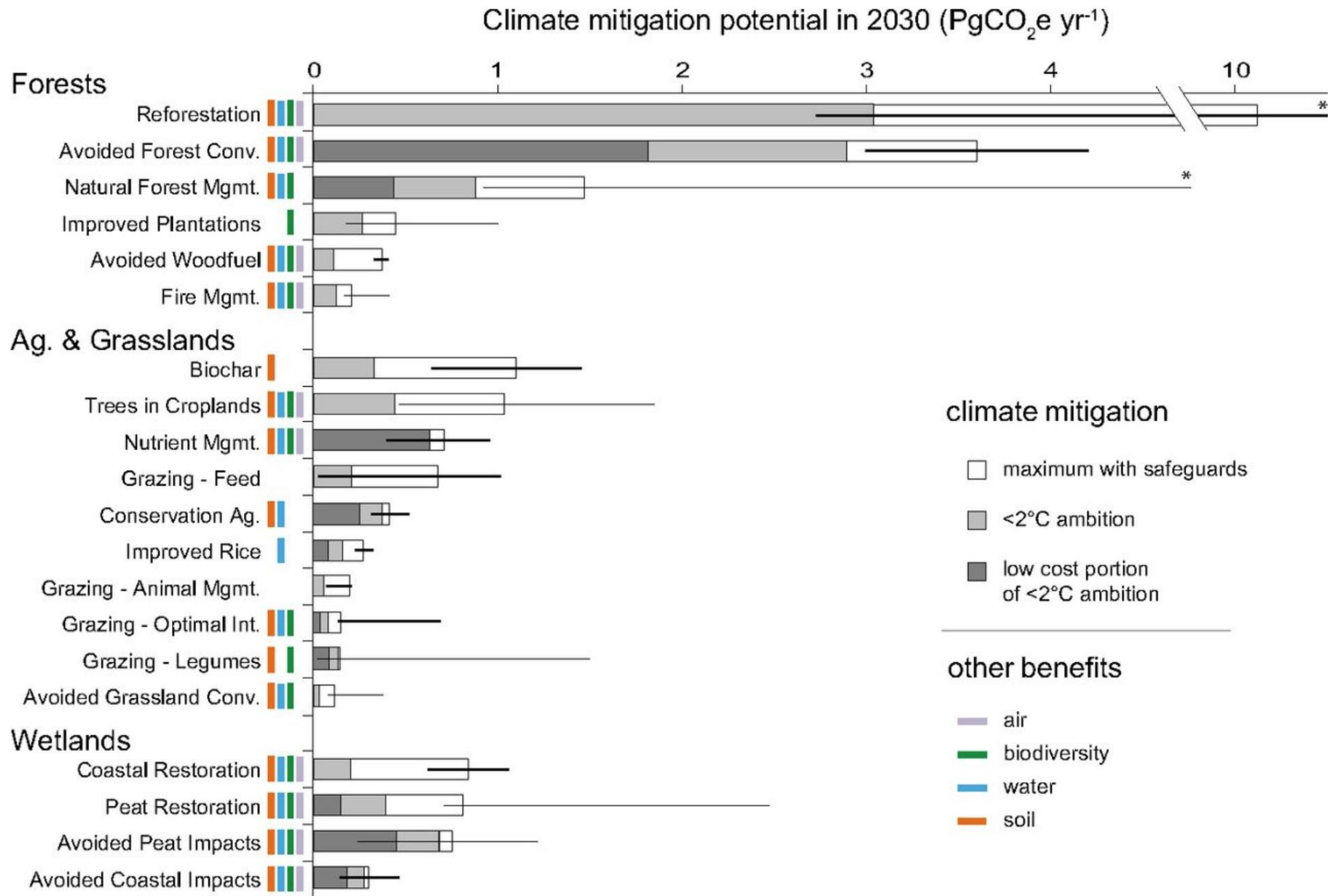
- Forest protection
- Avoided deforestation
- Mangrove restoration
- Regenerative agriculture
- Sea grass bed and coral restoration
- Sustainable forest management

- Sustainable grazing practices
- Peatland protection
- Wetland restoration
- Nature-based energy
- Agroforestry and silvopasture
- Reforestation



Forests, peatlands, wetlands and agriculture can provide >1/3 of our climate mitigation solution

Griscom et al. 2017. Natural Climate Solutions. PNAS.

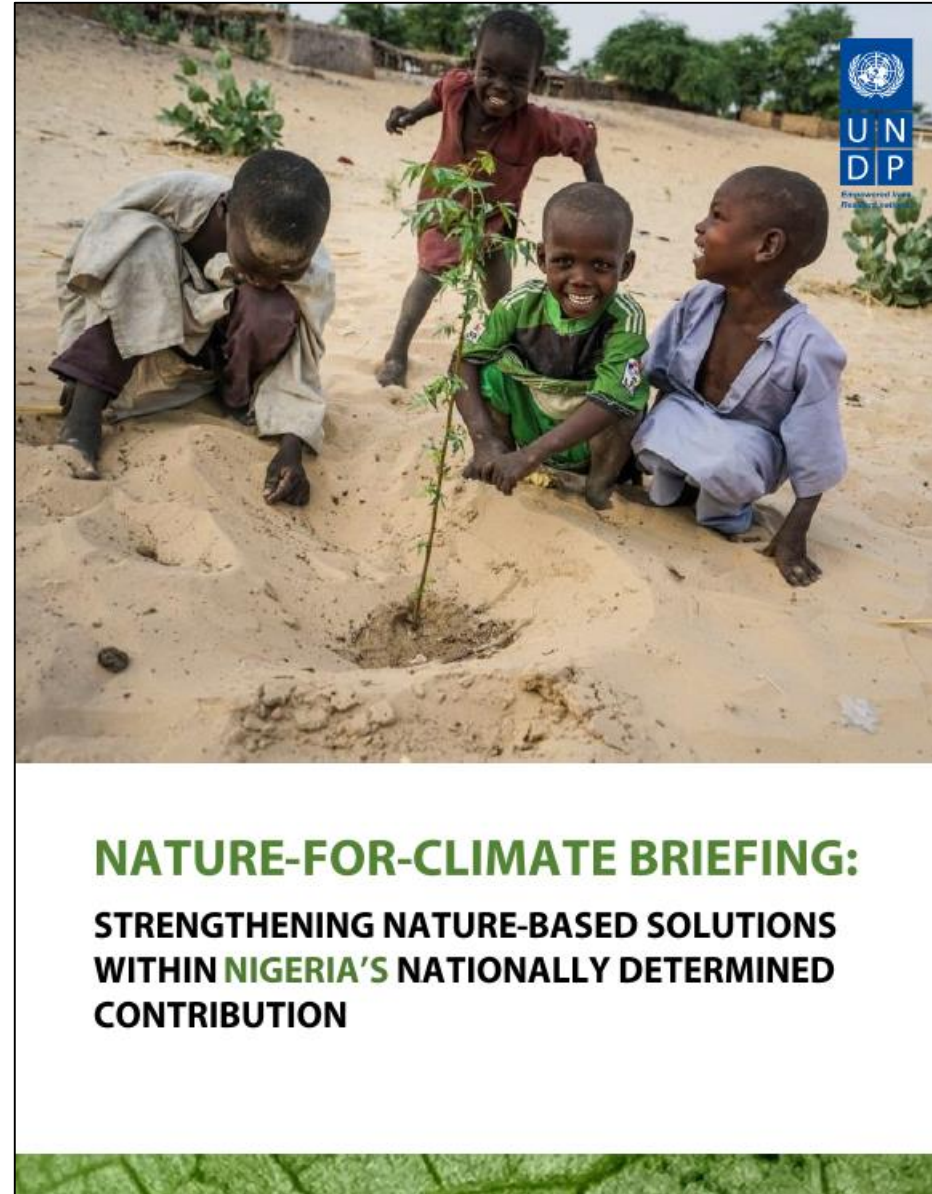




How can we analyze
opportunities for nature-based
solutions within NDCs?

Analyzing nature-based solutions within Nigeria

Nature-for-climate briefing:
An analysis of how nature-based solutions can help achieve national climate goals while also contributing to national sustainable development goals.



Analyzing nature-based solutions within Nigeria

Framework for analysis of nature-based solutions

	PROTECT , maintain and connect intact ecosystems and habitats	MANAGE ecosystems sustainably for multiple benefits	RESTORE degraded ecosystems, species and ecological processes
Potential, opportunities, actions and commitments related to FOREST ECOSYSTEMS			
Potential, opportunities, actions and commitments related to WETLANDS AND PEATLANDS			
Potential, opportunities, actions and commitments related to COASTAL ECOSYSTEMS			
Potential, opportunities, actions and commitments related to GRASSLANDS AND AGRICULTURAL SYSTEMS			

Analyzing nature-based solutions within Nigeria

Mitigation potential of nature-based solutions:

- Improved natural forest management
- Restoration of forests
- Agroforestry

	Protect , maintain and connect intact ecosystems and habitats	Manage ecosystems sustainably for multiple benefits	Restore degraded ecosystems, species and ecological processes
Opportunities for mitigation through actions related to FOREST ECOSYSTEMS	❖ Avoided forest conversion: 9.72 Mt CO ₂ e/yr	❖ Improved natural forest management: 22.71 Mt CO₂e/yr ❖ Reduced woodfuel harvest: 10.07 Mt CO ₂ e/yr	❖ Restore forests: 20.76 Mt CO₂e/yr
Opportunities for mitigation through actions related to WETLANDS AND PEATLANDS	❖ Avoided peat impacts: .71 Mt CO ₂ e/yr	~ No data	❖ Peat restoration: .87 Mt CO ₂ e/yr
Opportunities for mitigation through actions related to COASTAL ECOSYSTEMS	❖ Avoided mangrove impacts: .97 Mt CO ₂ e/yr	~ No data	❖ Mangrove restoration: .26 Mt CO ₂ e/yr
Opportunities for mitigation through actions related to GRASSLANDS AND SUSTAINABLE AGRICULTURE	~ No data	❖ Improved fire management in savannas: 2.77 Mt CO ₂ e/y ❖ Trees in agricultural lands/agroforestry: 45.38 Mt CO₂e/yr ❖ Optimal grazing intensity: 1.3 Mt CO ₂ e/yr	~ No data

Analyzing nature-based solutions within Nigeria

Nature-based solutions within Nigeria's existing NDC

	PROTECT , maintain and connect intact ecosystems and habitats	MANAGE ecosystems sustainably for multiple benefits	RESTORE degraded ecosystems, species and ecological processes
NDC commitments related to FOREST ECOSYSTEMS	<ul style="list-style-type: none"> ❖ ADAPTATION: Establish community and private natural forests, plantation ❖ MITIGATION: Conserve remaining forests 	<ul style="list-style-type: none"> ❖ ADAPTATION: Strengthen implementation of the national Community-Based Forest Resource Management Programme; improve management of forest reserves; enforce low-impact logging practices ❖ MITIGATION: Avoid using charcoal 	<ul style="list-style-type: none"> ❖ ADAPTATION: Restore community and private natural forests, plantations and nurseries ❖ MITIGATION: Reversing forest degradation
NDC commitments related to WETLANDS AND PEATLANDS	❖ No references	❖ No references	❖ No references
NDC commitments related to COASTAL ECOSYSTEMS	❖ No references	❖ No references	❖ No references
NDC commitments related to GRASSLANDS AND SUSTAINABLE AGRICULTURE	❖ No references	<ul style="list-style-type: none"> ❖ ADAPTATION: Adopt improved agricultural systems for both crops and livestock; implement strategies for improved for resource management ❖ MITIGATION: Climate-smart agriculture agroforestry 	❖ No references

Analyzing nature-based solutions within Nigeria

Nature-based solutions within Nigeria's national development commitments:

- Increase forest cover to 18%
- Protect coastal ecosystems
- Protect ecosystems that provide water

	PROTECT , maintain and connect intact ecosystems and habitats	MANAGE ecosystems sustainably for multiple benefits	RESTORE degraded ecosystems, species and ecological processes
Development commitments related to FOREST ECOSYSTEMS	❖ No references	❖ NDRRP : Encourage the use of alternative fuel to reduce the use of wood fuel	❖ NDRRP : Encourage tree planting to prevent flooding and watershed management. ❖ NDP : Promote sustained afforestation and reforestation programme to increase forest cover to 18% in 2020
Development commitments related to WETLANDS AND PEATLANDS	❖ NWP : Preserve quality of surface and ground water while promoting the protection of the environment and associated aquatic ecosystems	❖ NWP : Foster integrated water resource management	❖ No references
Development commitments related to COASTAL ECOSYSTEMS	❖ NDP : Preserve and improve quality and extent of coastal ecosystem to create opportunities for conservation and sustainable utilization of coastal resources	❖ NDP : Encourage alternative livelihood for coastal communities	❖ NDRRP : Restore valuable coastal resources
Development commitments related to GRASSLANDS AND SUSTAINABLE AGRICULTURE	❖ No references	❖ No references	❖ No references

Analyzing nature-based solutions within Nigeria

Nature-based solutions within Nigeria's national environment commitments:

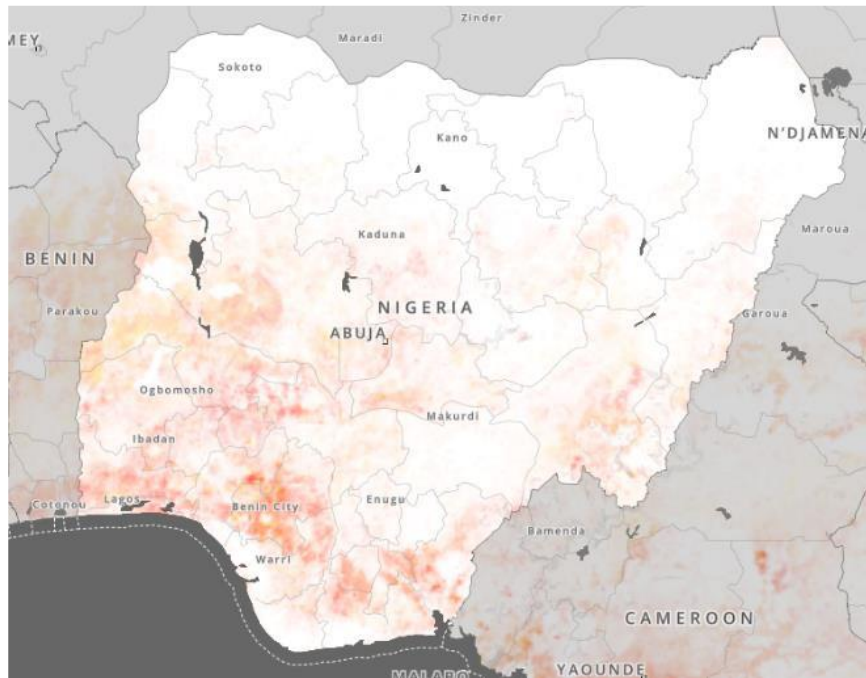
- Increase forest protection, restoration and sustainable management
- Integrated watershed management
- Implement Agro-biodiversity and agroforestry

	PROTECT , maintain and connect intact ecosystems and habitats	MANAGE ecosystems sustainably for multiple benefits	RESTORE degraded ecosystems, species and ecological processes
Environmental commitments related to FOREST ECOSYSTEMS	<ul style="list-style-type: none"> ❖ NBSAP Upgrade the status of 10 forest reserves, game reserves and sanctuaries to national park status ❖ REDD+: To replicate experiences from Cross River State across other states ❖ NFP: Help private owners and communities reserve forests ❖ PAP: Increase terrestrial protected area coverage by 374 km² 	<ul style="list-style-type: none"> ❖ NBSAP: Designate areas for sustainable harvesting of non-timber forest products ❖ NBSAP: Sustainably managed at least 10% of Nigeria's national territory ❖ NFP: Improve management of forest reserves and enforce low-impact logging; encourage improved forest tenure 	<ul style="list-style-type: none"> ❖ BONN: Restore 4 million hectares of forests ❖ NBSAP: Establish a National Forest Recovery Programme ❖ NBSAP: Restore up to 15% of degraded ecosystems ❖ NFP: Rehabilitate and conserve key watershed forests; embark on massive afforestation and reforestation programme
Environmental commitments related to WETLANDS AND PEATLANDS	<ul style="list-style-type: none"> ❖ No references 	<ul style="list-style-type: none"> ❖ NFP: Initiate a national programme for integrated water resource management at the watershed level 	<ul style="list-style-type: none"> ❖ NBSAP: Establish National Rivers and Wetlands Rehabilitation Programme
Environmental commitments related to COASTAL ECOSYSTEMS	<ul style="list-style-type: none"> ❖ No references 	<ul style="list-style-type: none"> ❖ No references 	<ul style="list-style-type: none"> ❖ NBSAP: Establish National Forest and Vegetation Recovery Programme including mangroves and coastal areas
Environmental commitments related to GRASSLANDS AND SUSTAINABLE AGRICULTURE	<ul style="list-style-type: none"> ❖ NBSAP: Establish grazing reserves and pastoral routes 	<ul style="list-style-type: none"> ❖ NBSAP: Develop a national strategy for the conservation of agricultural biodiversity and promotion of agroforestry 	<ul style="list-style-type: none"> ❖ No references

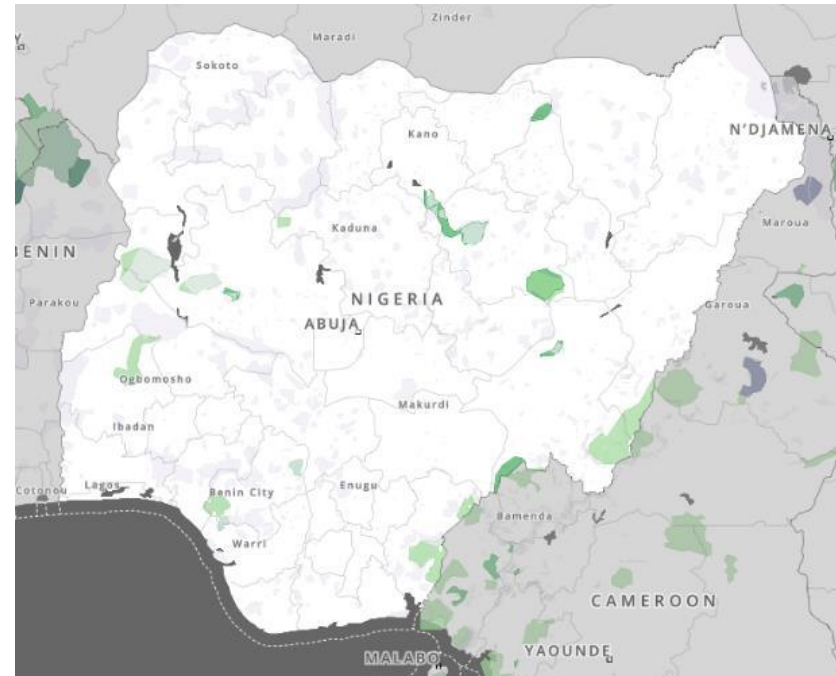
Analyzing nature-based solutions within Nigeria

Opportunities for action on forests

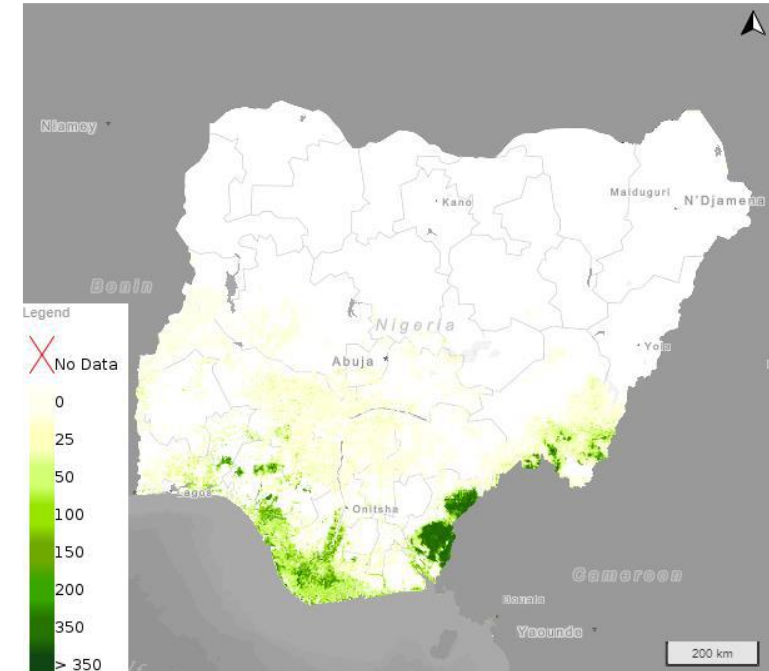
Forest cover loss



Protected areas



Forest above-ground carbon



Analyzing nature-based solutions within Nigeria

Scaling up forest case studies and initiatives

Non-timber forest products



Community-based forestry



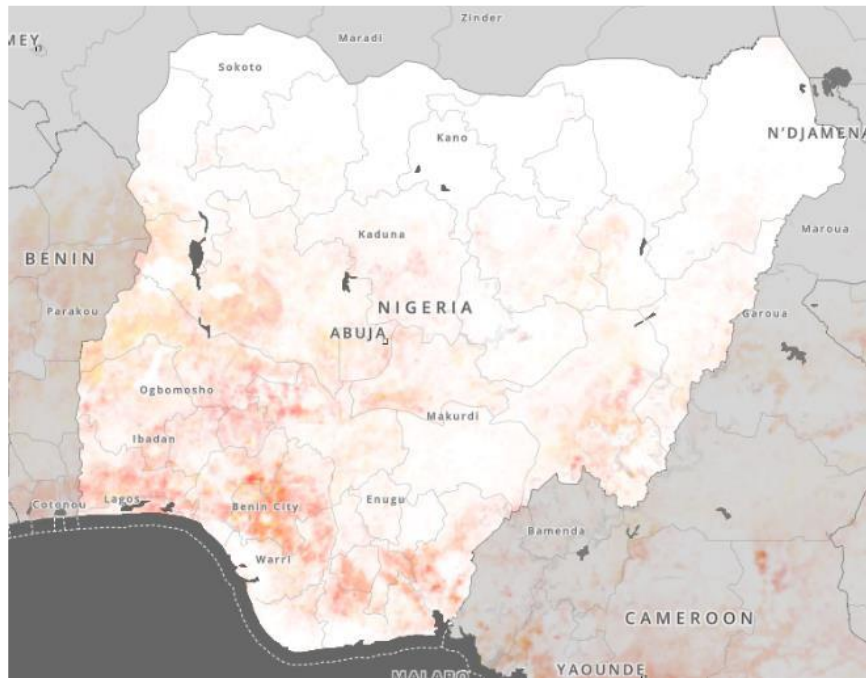
Fuelwood reduction



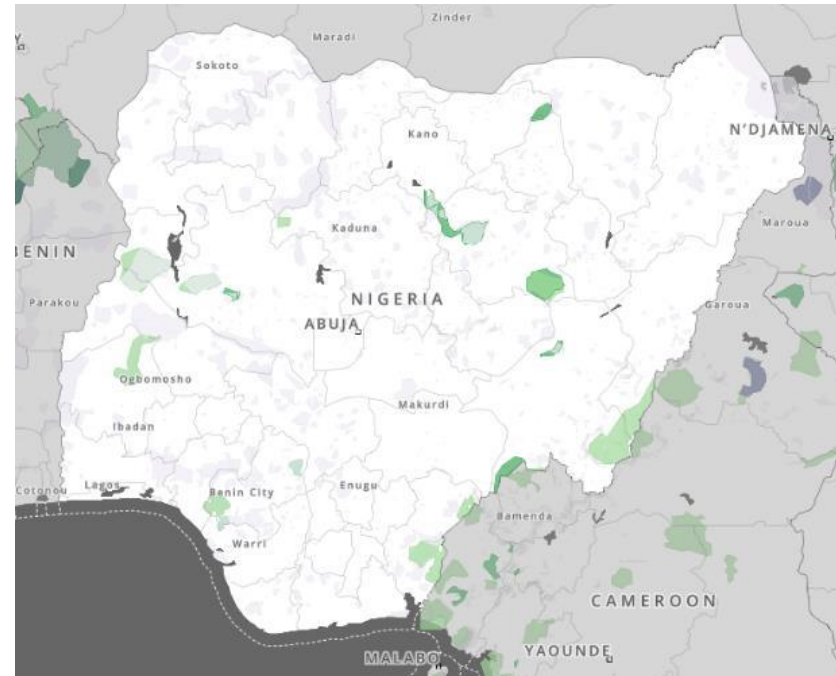
Analyzing nature-based solutions within Nigeria

Opportunities for action on forests

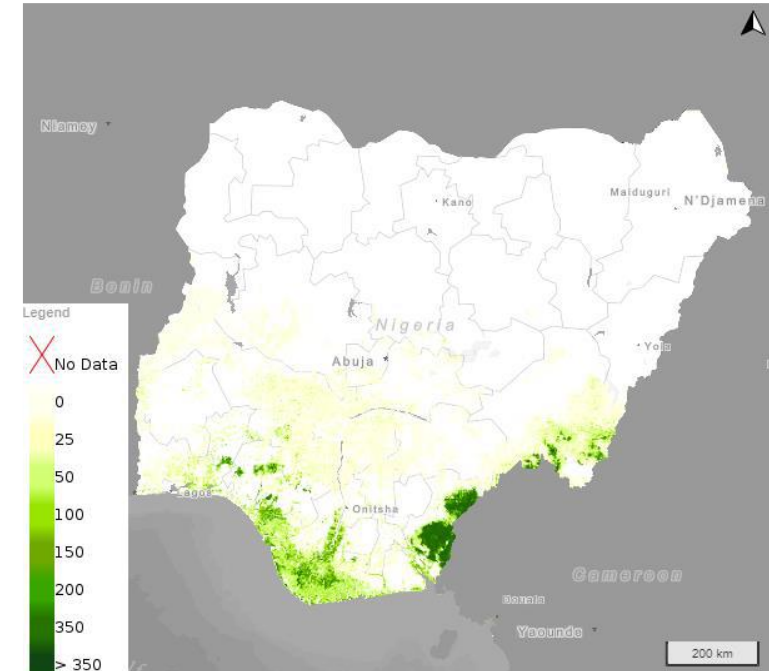
Forest cover loss



Protected areas



Forest above-ground carbon



Analyzing nature-based solutions within Nigeria

Scaling up forest case studies and initiatives

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Community-based forestry



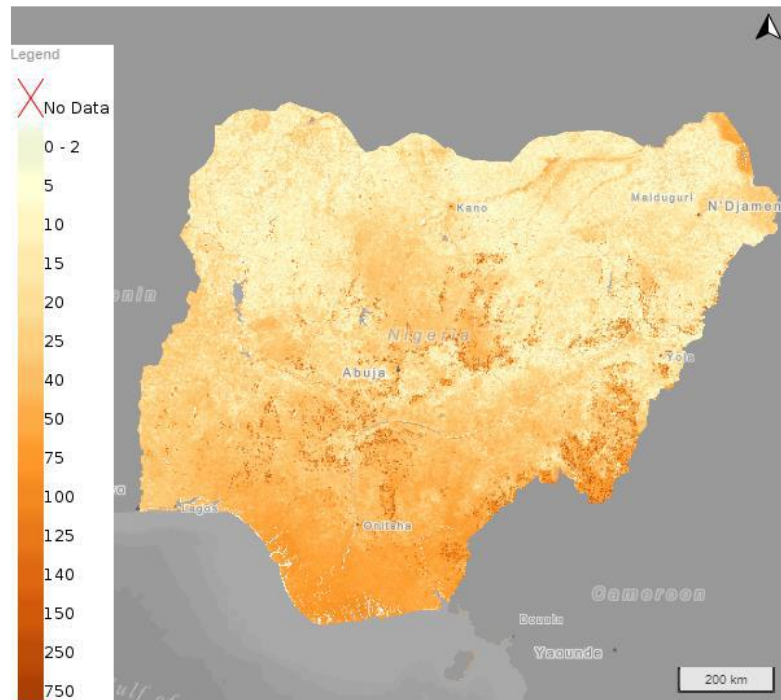
Fuelwood reduction



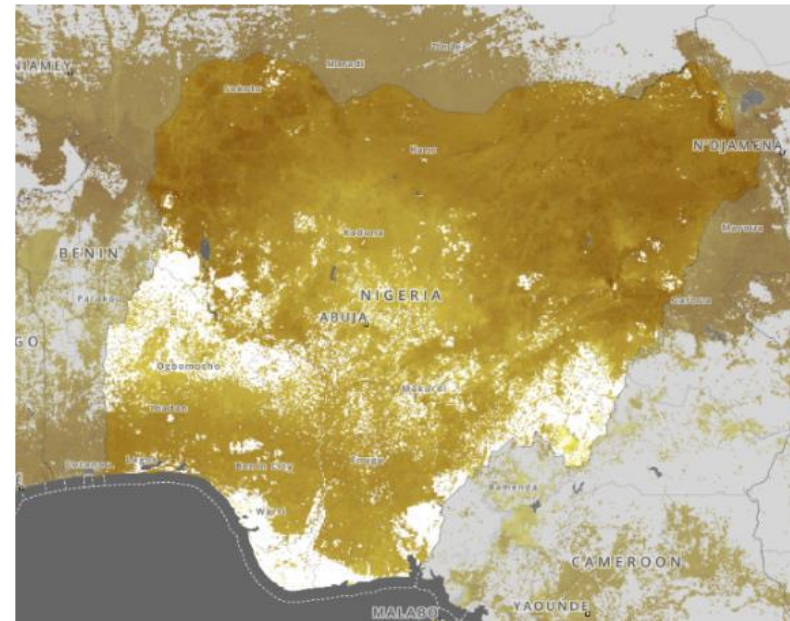
Analyzing nature-based solutions within Nigeria

Opportunities for action on agroforestry and regenerative agriculture

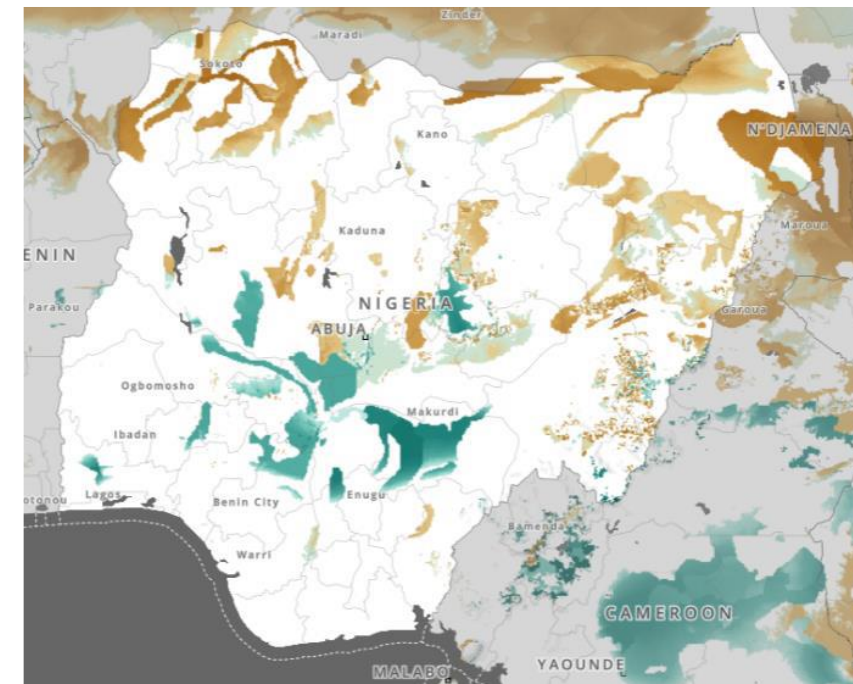
Soil organic carbon



Soil organic carbon through improved agriculture/agroforestry



Crop suitability change (2011-2040)



Analyzing nature-based solutions within Nigeria

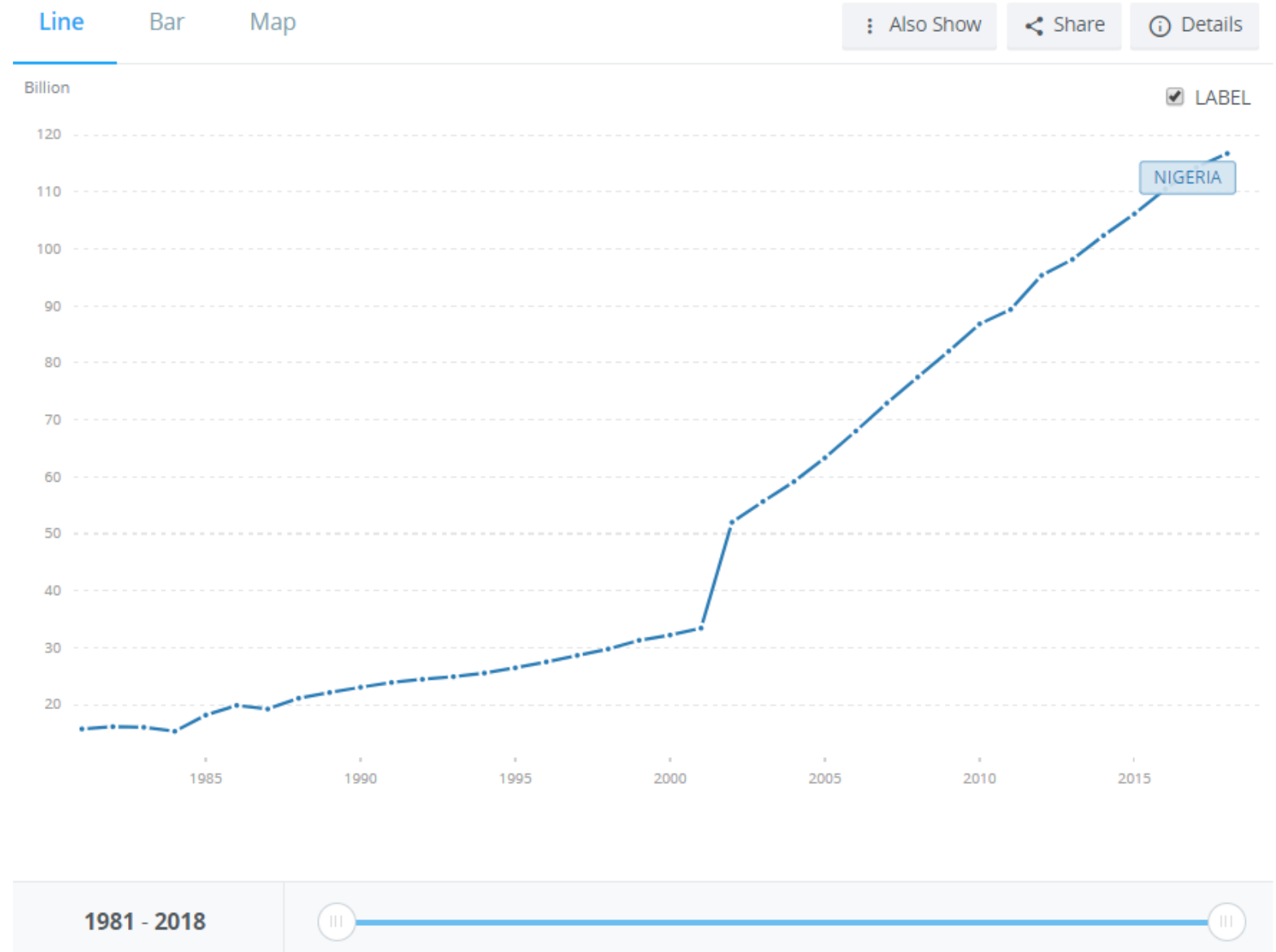
Scaling up agroforestry and regenerative agriculture examples



Analyzing nature-based solutions within Nigeria

Benefits of nature-based solutions to Nigeria:

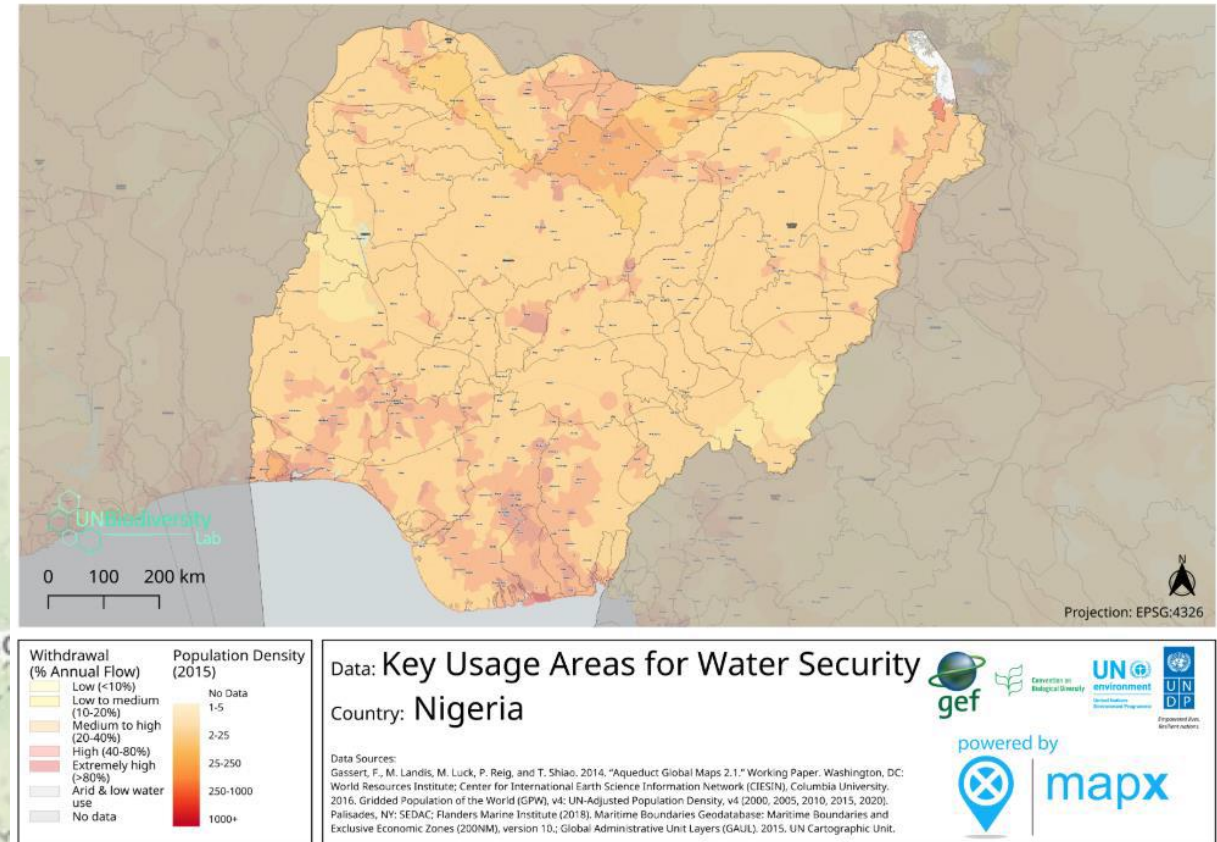
- Value of nature-based livelihoods to Nigeria's GDP (\$117 billion)



Analyzing nature-based solutions within Nigeria

Benefits of nature-based solutions to Nigeria:

- Water security



Analyzing nature-based solutions within Nigeria

Summary recommendations for nature-based solutions in Nigeria

	PROTECT , maintain and connect intact ecosystems and habitats	MANAGE ecosystems sustainably for multiple benefits	RESTORE degraded ecosystems, species and ecological processes
Potential, opportunities, actions and commitments related to FOREST ECOSYSTEMS	Increase forest protection	Improve natural forest management Reduce fuelwood	Forest restoration
Potential, opportunities, actions and commitments related to WETLANDS AND PEATLANDS	Protect wetlands	Integrated watershed management	Restore wetlands
Potential, opportunities, actions and commitments related to COASTAL ECOSYSTEMS	Protect mangroves		Restore mangroves
Potential, opportunities, actions and commitments related to GRASSLANDS AND AGRICULTURAL SYSTEMS	Protect grasslands	Improve agriculture Increase agroforestry	Restore grasslands

For more information: Jamison.Ervin@UNDP.org



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