

BACKGROUND

The Sahel refers to an ~ 5400 km long semi-arid land stretch, reaching from Senegal on the Atlantic Ocean to Eritrea on the Red Sea.

Climate extremes dominate this region, ranging from severe droughts and strong winds to fluctuating precipitation and anomalous floods.1

These harsh environmental conditions impede land productivity and thereby challenge millions of livelihoods.1 Subsistence agriculture, fisheries, and animal husbandry are the main sources of employment.2



An estimated 40 % of Sahelians are subject to food insecurity.3

DESERTIFICATION...

... "means land degradation in arid [...] areas resulting from various factors, including climatic variations and human activities." UNCCD. 4

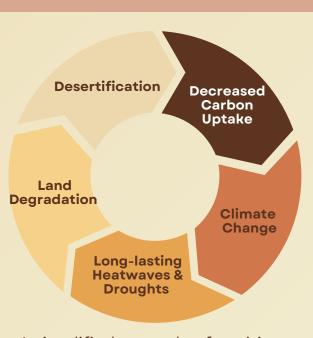
The Sahel zone is considered to be among the most threatened by desertification in the world. Drastic population growth and extreme climatic conditions are two main causes that contribute to associated land degradation.

Land degradation implies " [...] the reduction and

loss of the organic or economic production capacity of production lands." UNCCD. 4 Anthropogenic activities exacerbate soil conditions, e.g. through mismanaged land and irrigation, increased livestock density, and overgrazing as well as through land exploitation and land clearing.1

Consequences include water scarcity, soil erosion, and further land degradation. This exacerbates the living conditions of communities, that face famine, conflict over resources, and insecurity. Many people are forced to migrate in search of better living conditions.3





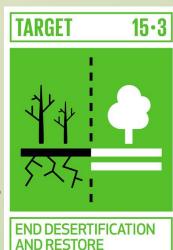
A simplified example of positive feedback further contributing to climate change.8

The inhabitants of the Sahel belong to the most vulnerable to climate hazards.⁵ These complex repercussions affect various areas, including food insecurity, biodiversity loss, and health deficiencies. Collateral impacts further affect the political, economic, and societal sectors, giving reason to the need for multidimensional approaches to combat environmental fragility.67



SUSTAINABLE DEVELOPMENT GOAL

"By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradationneutral world." SDG Target 15.3.1°



DEGRADED LAND

SDG Icon 15.3 11



GREAT GREEN WALL INITIATIVE - A MOSAIC OF GREEN

FARMER MANAGED NATURAL REGENERATION An agroecological regreening method relying on the

nourishment of existing tree stumps, roots, and seeds¹⁶ • Low cost and low technology methods

> • **Resilience** to climate extremes • Improved food security (e.g. sorghum and

• Income source (e. g. crops, firewood, medicine)

- Higher survival rate of vegetation and trees by aiding the sprout of prevailing **native** species
- Reduction of local conflict through cooperation between farmers and pastoralists

GREAT GREEN WALL (GGW)

8000 km

long regreened stretch, halting the expansion of the Sahara Desert.

11 countries

are involved.

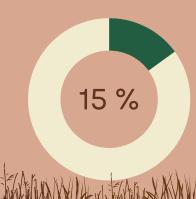
be restored.

100 mio ha

of degraded land are to

250 mio tons

of carbon are to be captured. 12



So far only 15 % has been revegetated. 13

The GGW initiative was implemented in 2007 by the African Union to directly oppose land degradation and desertification in the context of ongoing climate change.¹² In the process, socio-economic cobenefits are aspired. Albeit global awareness and international support by stakeholders, actors, and NGOs, the ambitious goals of the agreement have not yet been fulfilled in the least. The idea of a green 'wall' made of planted trees failed quickly, instead, a feasible mosaic of adequate land use and management methods has replaced the vision, such as agroecology practices.14

SUSTAINABLE LAND MANAGEMENT (SLM)

SLM focuses equally on ecosystem functions and productivity while ensuring the sustainable use of these resources.15 Locally adapted, innovative, and participatory SLM approaches and technologies are being promoted in individual projects as part of the GGW Initiative. Farmer managed natural regeneration (FMNR), a community-based example of SLM technology, is already being implemented in Ghana, Kenya, Uganda, and Niger.¹⁵

LONG-TERM TARGETS 12 13



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Water Security



Food Security



Soil Fertility



Decreased poverty



Conflict Aversion



Climate Resilience



Less Migration



Gender equality



Economic Opportunities



Sustainability



Improved Health



Biodiversity