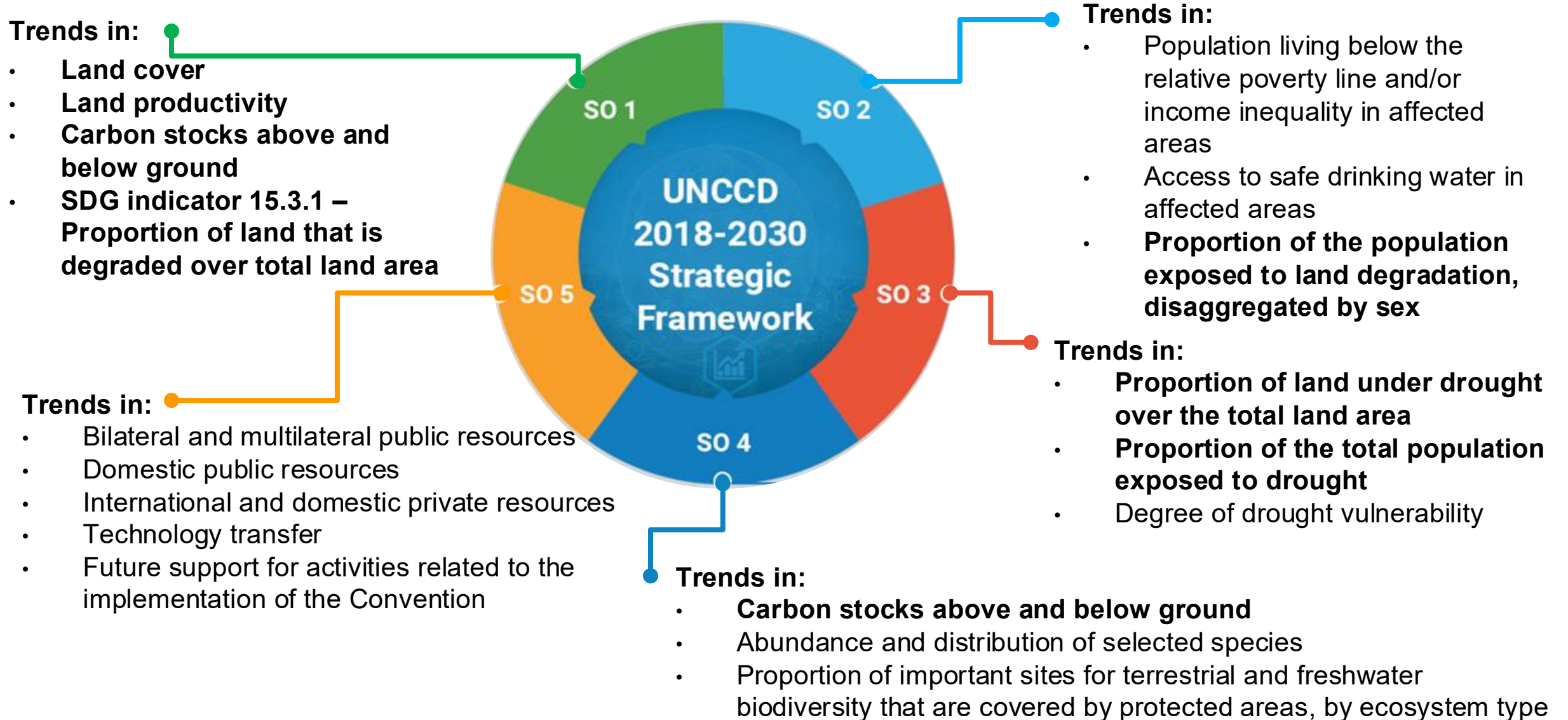


# Land Degradation Neutrality (LDN) and SDG Indicator 15.3.1: From global commitments to national implementation

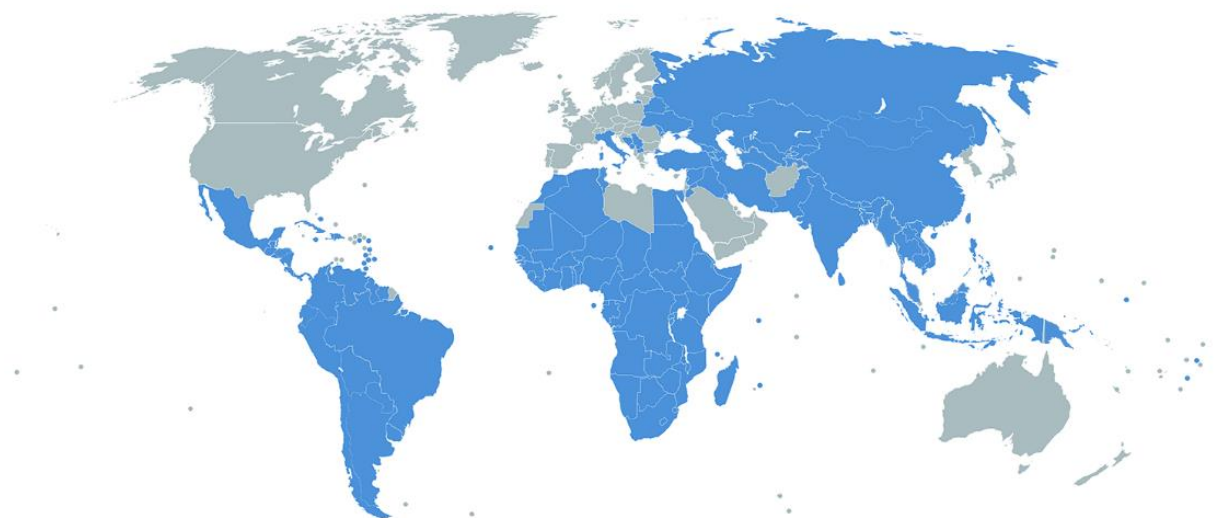
**Brian O'Connor**, Programme Officer  
UNCCD Secretariat, Bonn, Germany

# UNCCD Indicator Framework



# Overview of LDN target setting work

- Supporting countries since 2015 (LDN pilot project - 14 pilot countries)
- **LDN Target Setting Programme since 2016** (LDN TSP – global scale)
- **131 countries** engaged in setting LDN targets
- **113 countries have successfully completed this voluntary process**
- **LDN Target Setting Programme 2.0** since 2024 (18 countries for enhanced targets)



■ Countries setting LDN targets

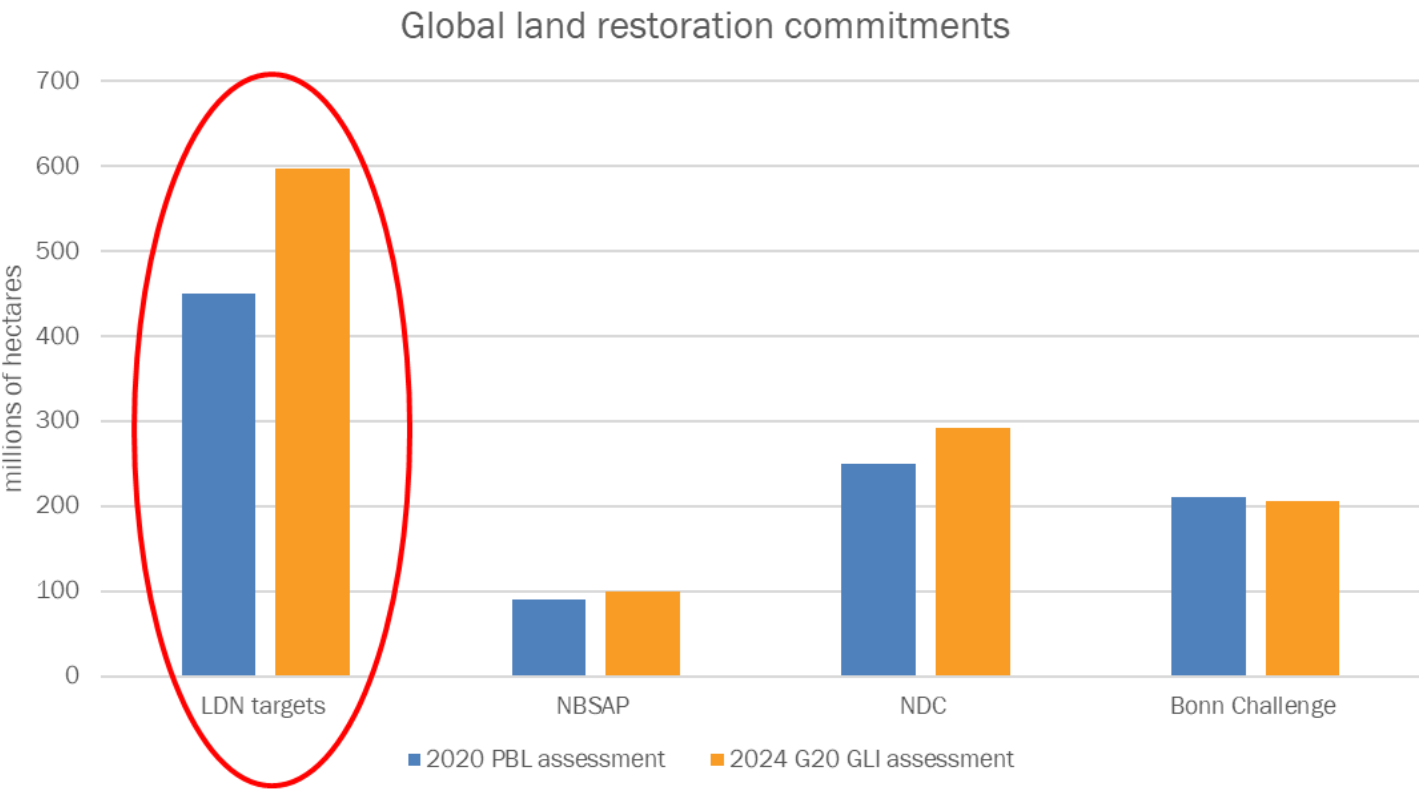
Disclaimer: The boundaries used on this map do not imply official endorsement, acceptance or the views or opinions of the UNCCD and the United Nations regarding the legal status of any territory or country. Care was taken in the creation of this map and is for display purposes only. The UNCCD, its staff and contractors cannot accept any responsibility for errors, omissions, or geographical accuracy or be held responsible for any damages due to errors or omissions in this map.

# Overview of LDN-TSP: global impact

LDN TSP received the 2018 IUCN **Global Impact Award**.

Globally, this work has resulted in **voluntary commitments to restore almost 600 million hectares of degraded land**.

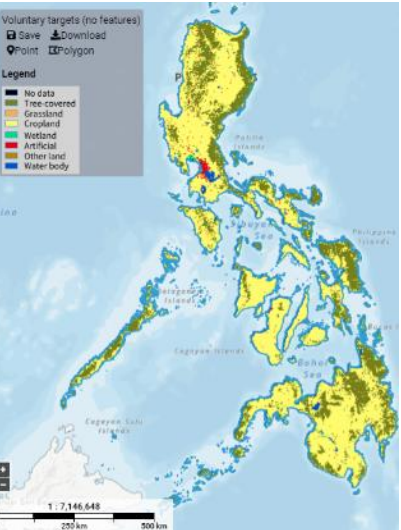
This constitutes the single **largest contribution of country commitments to the global ecosystem restoration agenda** and to the UN Decade for Ecosystem Restoration.



	LDN targets	NBSAP	NDC	Bonn Challenge
2020 PBL assessment	450	90	250	210
2024 G20 GLI assessment	596	99	291	205

# SDG indicator 15.3.1

3 ESSENTIAL VARIABLES:



LAND COVER



LAND PRODUCTIVITY



SOIL ORGANIC CARBON

“ONE OUT  
ALL OUT”

SDG 15.3.1





# Good practice guidance

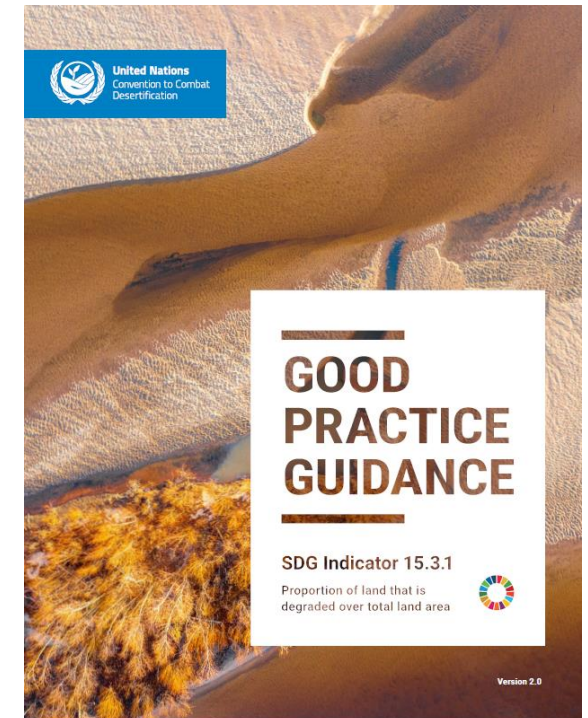
- The Good Practice Guidance (Version 2) provides the analytical methods for calculating SDG Indicator 15.3.1 using Earth Observation data
- An addendum to the GPG will shed new light on specific methodological challenges faced by countries in 2022 reporting

Addendum to  
the GPG  
SDG 15.3.1  
(in progress)

INTEGRATING LAND  
CONDITION ASSESSMENTS  
OVER TIME

TRACKING PROGRESS  
TOWARDS LDN

ENHANCEMENT OF  
DATASETS AND  
METHODOLOGIES



<https://www.unccd.int/publications/good-practice-guidance-sdg-indicator-1531-proportion-land-degraded-over-total-land>



United Nations  
Convention to Combat  
Desertification

<https://data.unccd.int>

2X

Between 2015 and 2019, the world lost at least **100 million** hectares of healthy and productive land each year, adding up to **twice the size of Greenland.**



United Nations  
Convention to Combat  
Desertification

<https://data.unccd.int>

100



More than **100 football fields** worth of healthy land lost **in Africa every minute.**



United Nations  
Convention to Combat  
Desertification

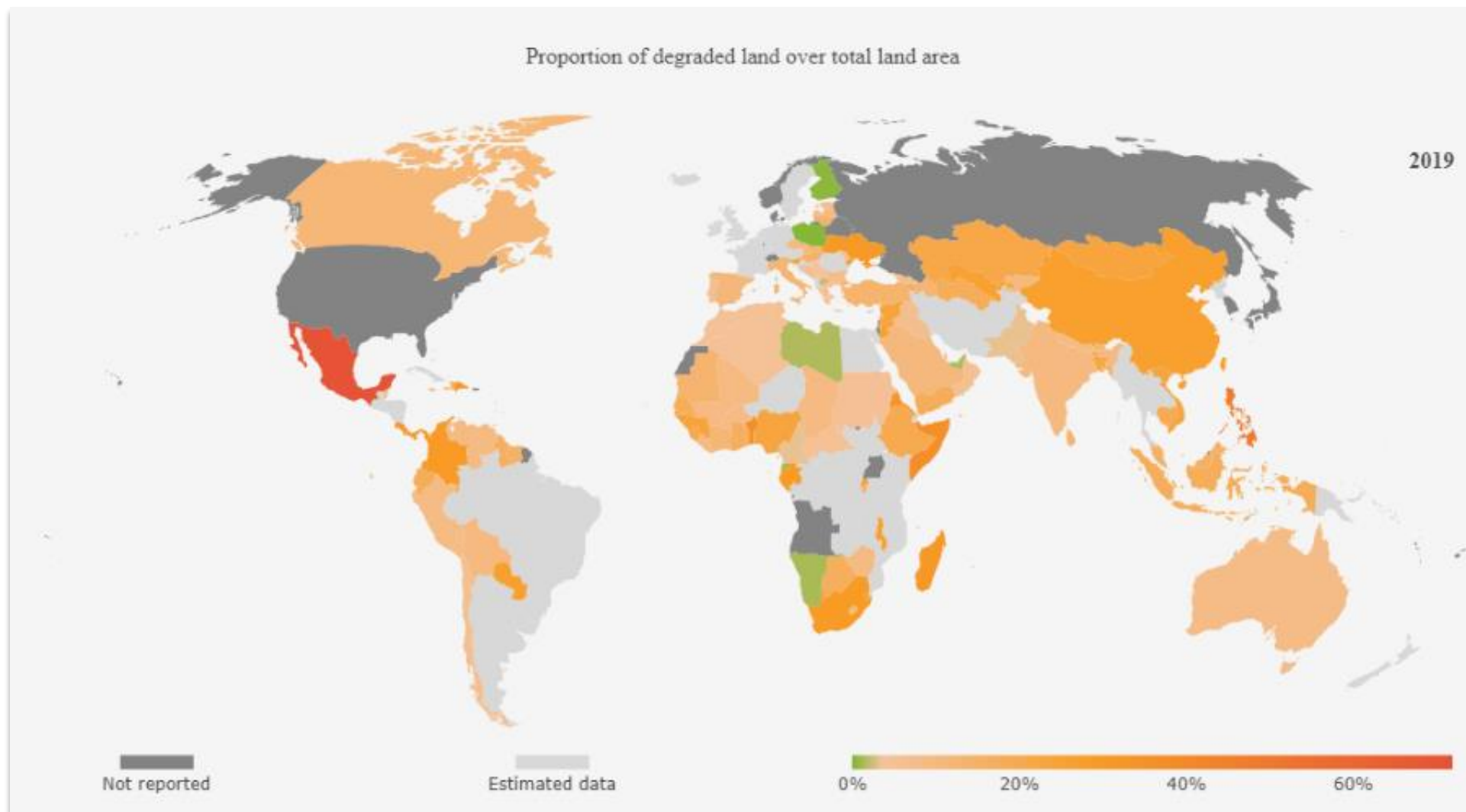
<https://data.unccd.int>

2030



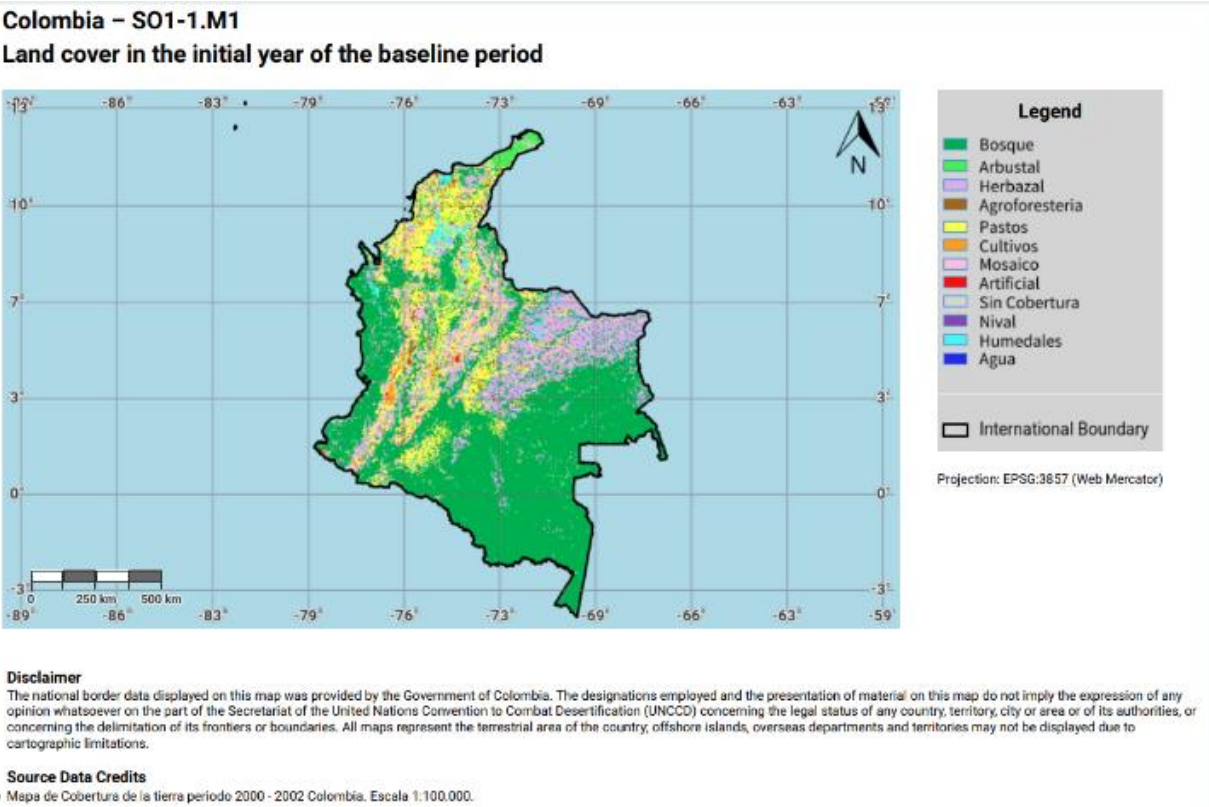
If current trends persist, we will need to restore **1.5 billion hectares** of degraded land by 2030.

# SDG indicator 15.3.1: Status and Trends



Source: data.unccd.int

# Country example: Colombia



National land cover data for 2001, 2012 and 2019

12 land cover classes to capture key degradation processes



Land over transition matrix developed using a participatory approach

High level of confidence in the estimates

	Forests	Shrublands	Grasslands	Agroforestry	Pastures	Cropland	Productive Mosaics	Artificial	Bareland	Snow and glaciers	Wetlands	Water
Forests	4n	2-2n	2n2	3-1n	4-	4-	4-	4-	4-	3n1+	3n1-	3-1n
Shrublands	1+3n	4n	2-2n	3-1+	4-	4-	4-	4-	4-	3n1+	3n1-	3-1n
Grasslands	2+2n	2n2+	4n	3+3	4-	3-1n	2n2	4-	4-	3n1+	2-1n1+	3-1n
Agroforestry	4+	4+	2+1n1	4n	3-1n	3-1n	2n2-	4-	4-	4n	3+1-	3-1n
Pastures	4+	4+	3+1n	4+	4n	1+1-2n	3+1n	4-	4-	4n	3+1-	3-1n
Cropland	4+	4+	2+2n	4+	4n	4n	3+1n	4-	4-	4n	3+1-	3-1n
Productive Mosaics	4+	4+	3+1n	2+2n	4-	3-1n	4n	4-	4-	4n	3+1-	3-1n
Artificial	4+	4+	4+	4+	4+	4+	4+	4n	2n1-1+	4n	3+1-	3-1n
Bareland	4+	4+	4+	4+	4+	4+	4+	3n1+	4n	4n	4n	2-2n
Snow and glaciers	2n2-	2n2-	2n2-	3-1n	3-1n	3-1n	3-1n	3-1n	3-1n	4n	3n1-	2-2n
Wetlands	4+	3n1-	2n2-	4-	4-	4-	4-	4-	4-	4n	4n	4n
Water	4+	2-2+	2-2+	2-2+	2-2+	2-2+	2-2+	3n1-	3n1-	4n	3+1-	4n

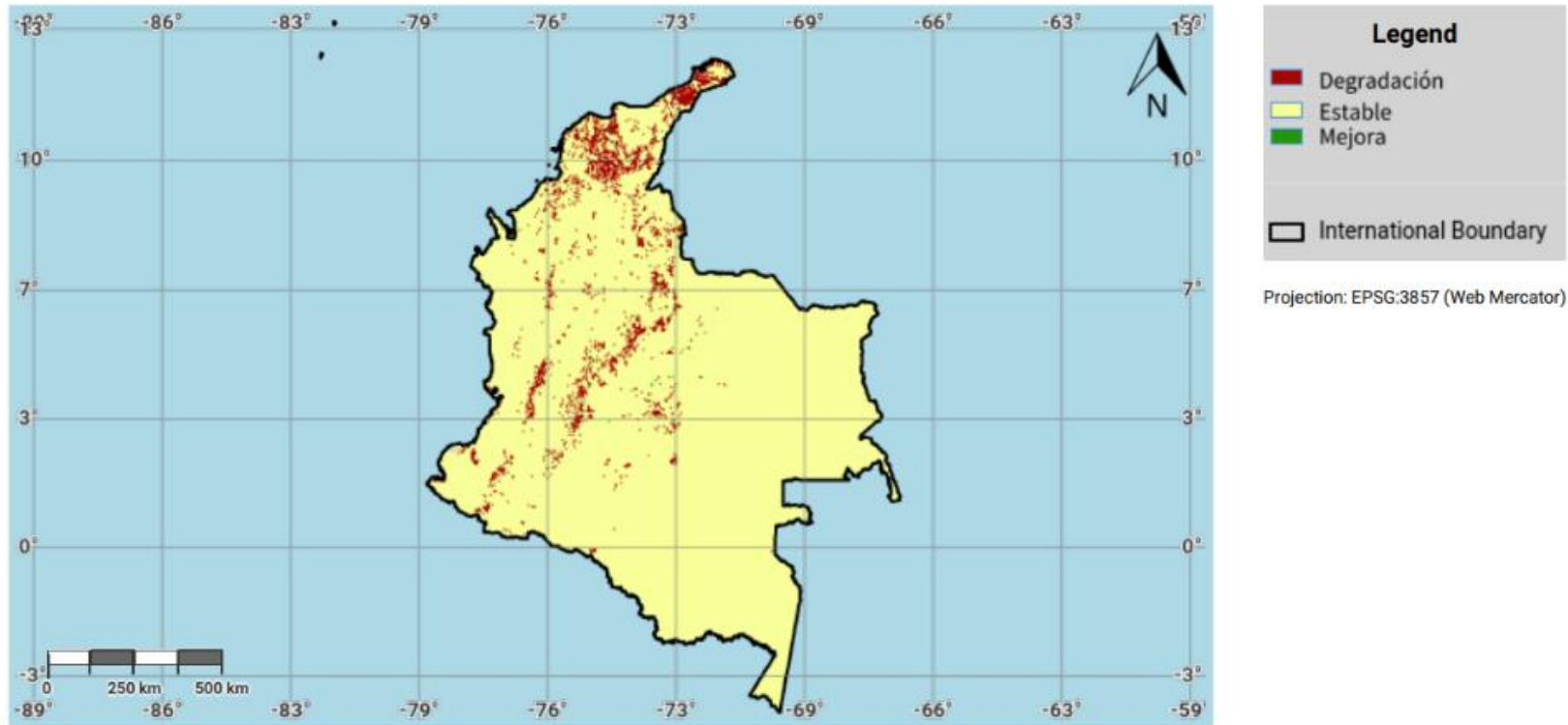
n NEUTRAL    POSITIVE    NEGATIVE



# Country example: Colombia

Colombia – S01-3.M7

Soil organic carbon degradation in the reporting period



## Disclaimer

The national border data displayed on this map was provided by the Government of Colombia. The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Convention to Combat Desertification (UNCCD) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. All maps represent the terrestrial area of the country; offshore islands, overseas departments and territories may not be displayed due to cartographic limitations.

## Source Data Credits

- Mapa Degradación del carbono orgánico del suelo a partir de información nacional, periodo de Referencia.

National soil organic carbon stock data

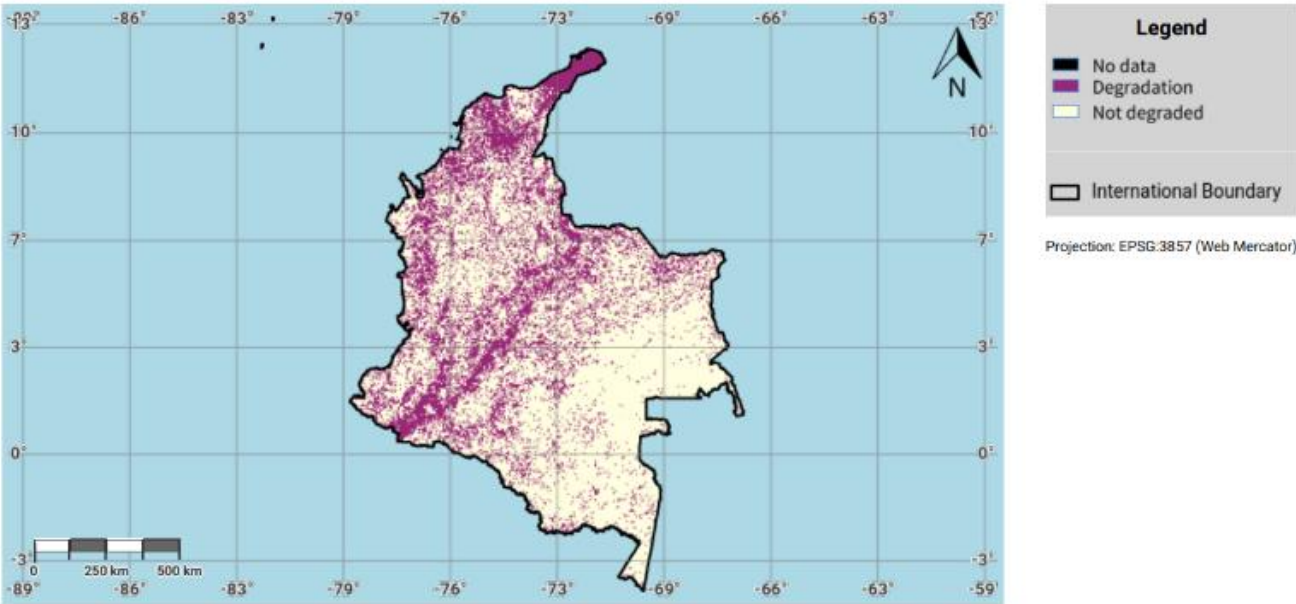
**Changes in SOC stock were estimated taking into consideration soil erosion and salinization processes, as well as the potential for carbon sequestration**

Medium level of confidence in the estimates

# Country example: Colombia

## Colombia – S01-4.M2

Proportion of land that is degraded over total land area (SDG Indicator 15.3.1) in the reporting period



As of 2019, almost 30 % of the land was degraded in Colombia (vs 9% default estimates)

Medium level of confidence in the estimates

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### Source Data Credits

- Indicador 15.3.1 de los ODS (Reporte 2015 - 2019)

S01-4.T1: National estimates of the total area of degraded land (in km<sup>2</sup>), and the proportion of degraded land relative to total land area

	Total area of degraded land (km <sup>2</sup> )	Proportion of degraded land over the total land area (%) ⓘ
Baseline Period ⓘ	85348	7.6
Reporting Period ⓘ	98370	8.8
Change in degraded extent ⓘ	13022	

Default

S01-4.T1: Estimaciones nacionales de la superficie total de las tierras degradadas (en kilómetros cuadrados), y proporción de tierras degradadas en comparación con la superficie terrestre total

	Superficie total de las tierras degradadas (km <sup>2</sup> )	Proporción de tierras degradadas en comparación con la superficie terrestre total (%)
Periodo de Referencia	331 897	28,8
Periodo sobre el que se informa	343 934	29,8
Variación de la extensión de las tierras degradadas	12037	

Reported

# National experiences of reporting



**Publication year: 2024**

This publication **showcases experiences from some 30 countries during the 2022 reporting process** on the status and trends in land degradation and drought. It provides an insight to the range of approaches that countries have taken to overcome challenges related to data availability, reliability, analysis and upload, digital and geospatial literacy, as well as sufficient and timely financial resources.



# Regional geographies pose unique challenges

## Hyper arid regions



Source: USGS/ESA

## Small island developing states



Contains modified Copernicus Sentinel data (2018), processed by ESA, CC BY-SA 3.0 IGO



# Conclusion

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**LDN Targets are a cornerstone for the achievement of SDG Target 15.3** and contribute the highest share to the global restoration commitment

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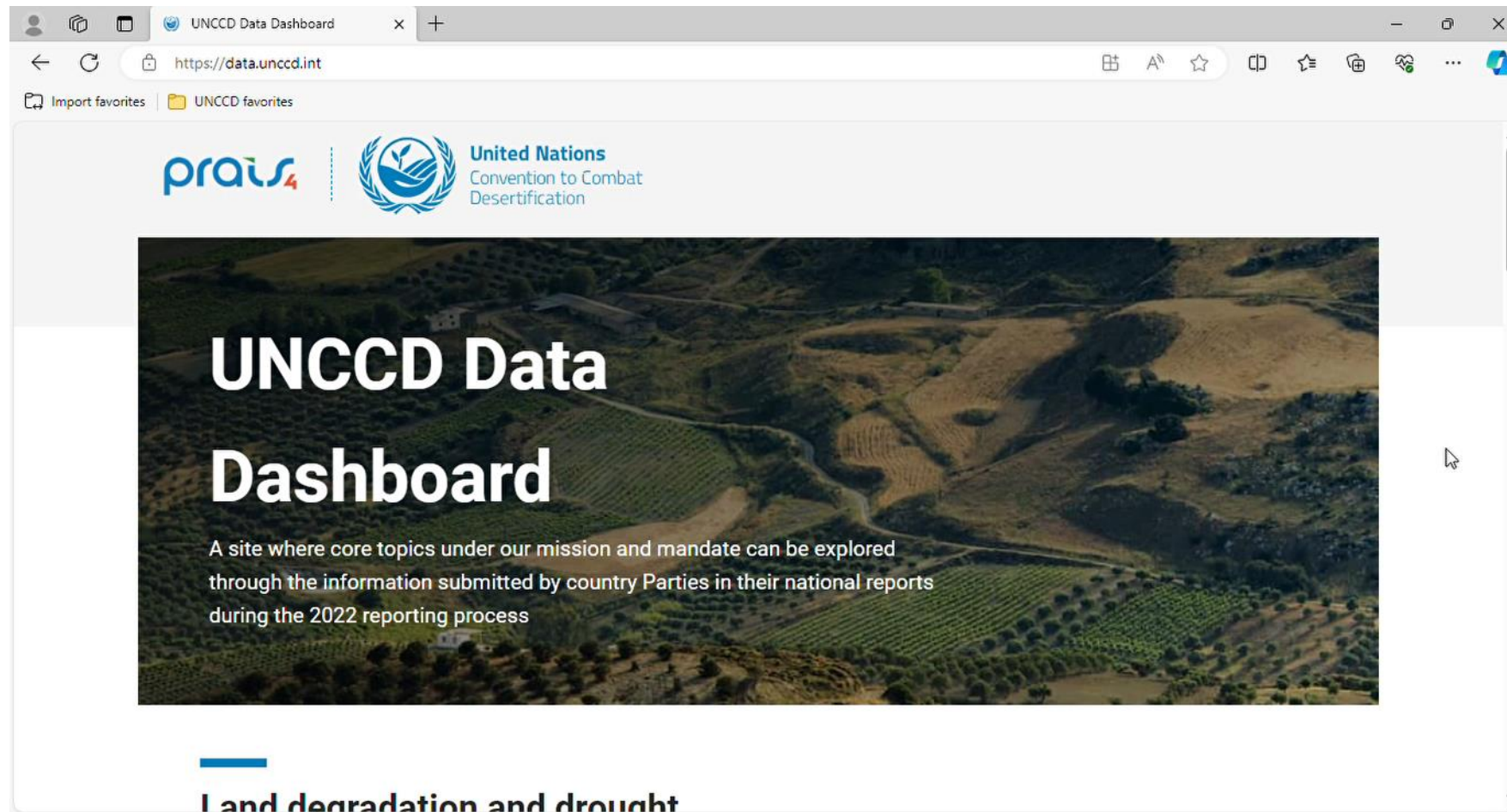
An analysis of SDG Indicator 15.3.1 suggest **at least 1.5. billion hectares of degraded land will need to be restored by 2030 for LDN to be achieved**

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National reporting using EO saw a major step forward in the 2022 reporting process, but **challenges persist especially for certain regions**

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# Thank you



<https://data.unccd.int/>