

EO 4 Ecosystem Accounting 2022



EO for the UNCCD 2018-2030 Strategic Framework

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UNCCD

28 November 2022



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Desertification

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+ THE EUROPEAN SPACE AGENCY

UNCCD 2018-2030 Strategic Framework



VISION: A future that avoids, minimizes, and reverses desertification/land degradation and mitigates the effects of drought in affected areas at all levels and strive to achieve a land degradation-neutral world consistent with the 2030 Agenda for Sustainable Development, within the scope of the Convention.

Strategic Objectives

SO1

To improve the **condition of affected ecosystems**, combat desertification/land degradation, promote sustainable land management and contribute to land degradation neutrality

SO2

To improve the **living conditions of affected populations**

SO3

To mitigate, adapt to, and manage the effects of **drought** in order to enhance resilience of vulnerable populations and ecosystems

SO4

To generate **global environmental benefits** through effective implementation of the UNCCD

SO5

To mobilize substantial and additional **financial and non-financial resources** to support the implementation of the Convention by building effective partnerships at global and national level

Land Degradation Neutrality (LDN) targets

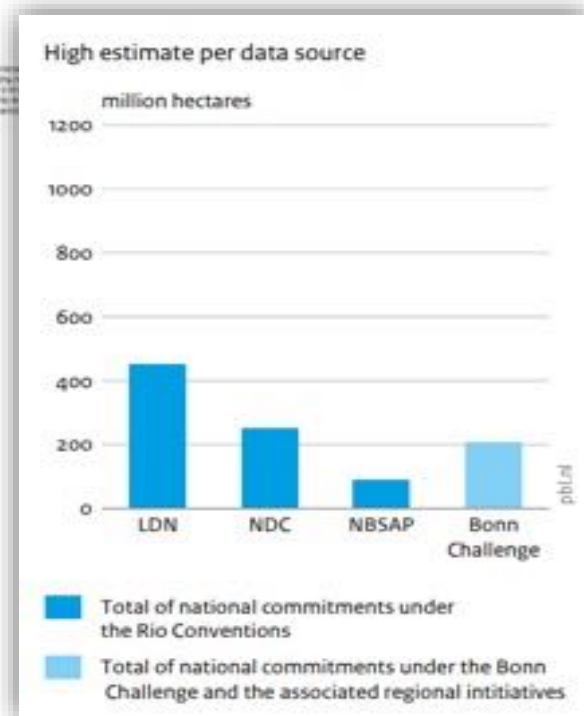


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LDN Target Setting Programme:

- **129** participating countries
- **107** countries having set their voluntary targets
- **72** countries having officially adopted their LDN targets through high-level government commitments
- **450 million hectares** committed by governments thus far



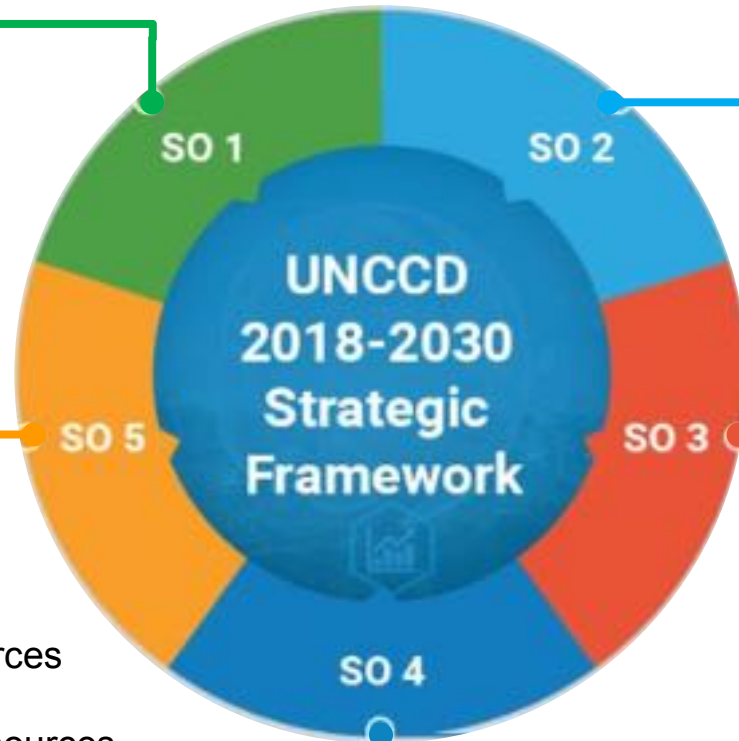
UNCCD Indicator Framework

Trends in:

- Land cover
- Land productivity
- Carbon stocks above and below ground
- **SDG indicator 15.3.1 – Proportion of land that is degraded over total land area**

Trends in:

- Bilateral and multilateral public resources
- Domestic public resources
- International and domestic private resources
- Technology transfer
- Future support for activities related to the implementation of the Convention



Trends in:

- Population living below the relative poverty line and/or income inequality in affected areas
- Access to safe drinking water in affected areas
- Proportion of the population exposed to land degradation, disaggregated by sex

Trends in:

- Proportion of land under drought over the total land area
- Proportion of the total population exposed to drought
- Degree of drought vulnerability

Trends in:

- Carbon stocks above and below ground
- Abundance and distribution of selected species
- Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type

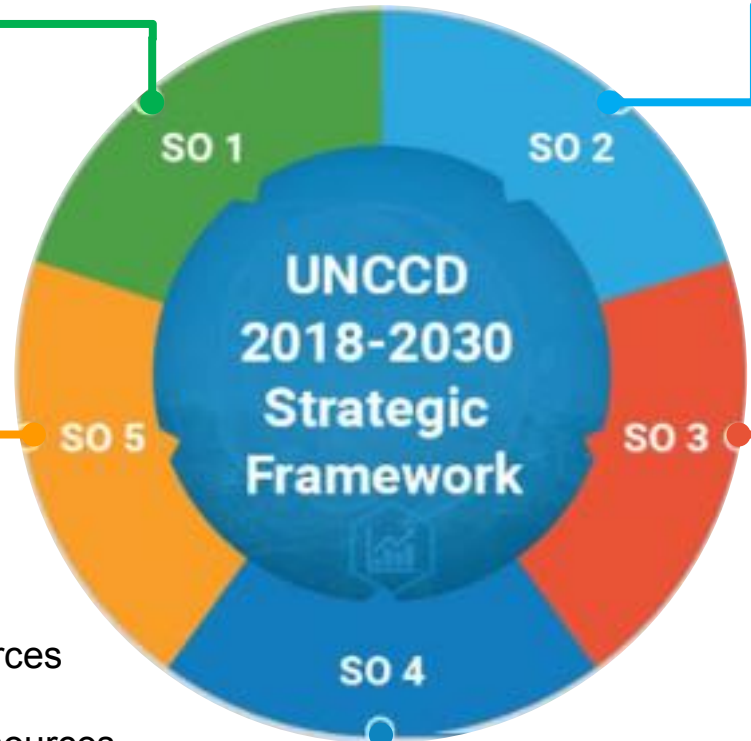
EO for the UNCCD Indicators

Trends in:

- Land cover
- Land productivity
- Carbon stocks above and below ground
- **SDG indicator 15.3.1 – Proportion of land that is degraded over total land area**

Trends in:

- Bilateral and multilateral public resources
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Trends in:

- Population living below the relative poverty line and/or income inequality in affected areas
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Trends in:

- **Proportion of land under drought over the total land area**
- **Proportion of the total population exposed to drought**
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Trends in:

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SDG Indicator 15.3.1 – Proportion of degraded land



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Tier 1

LAND
COVER

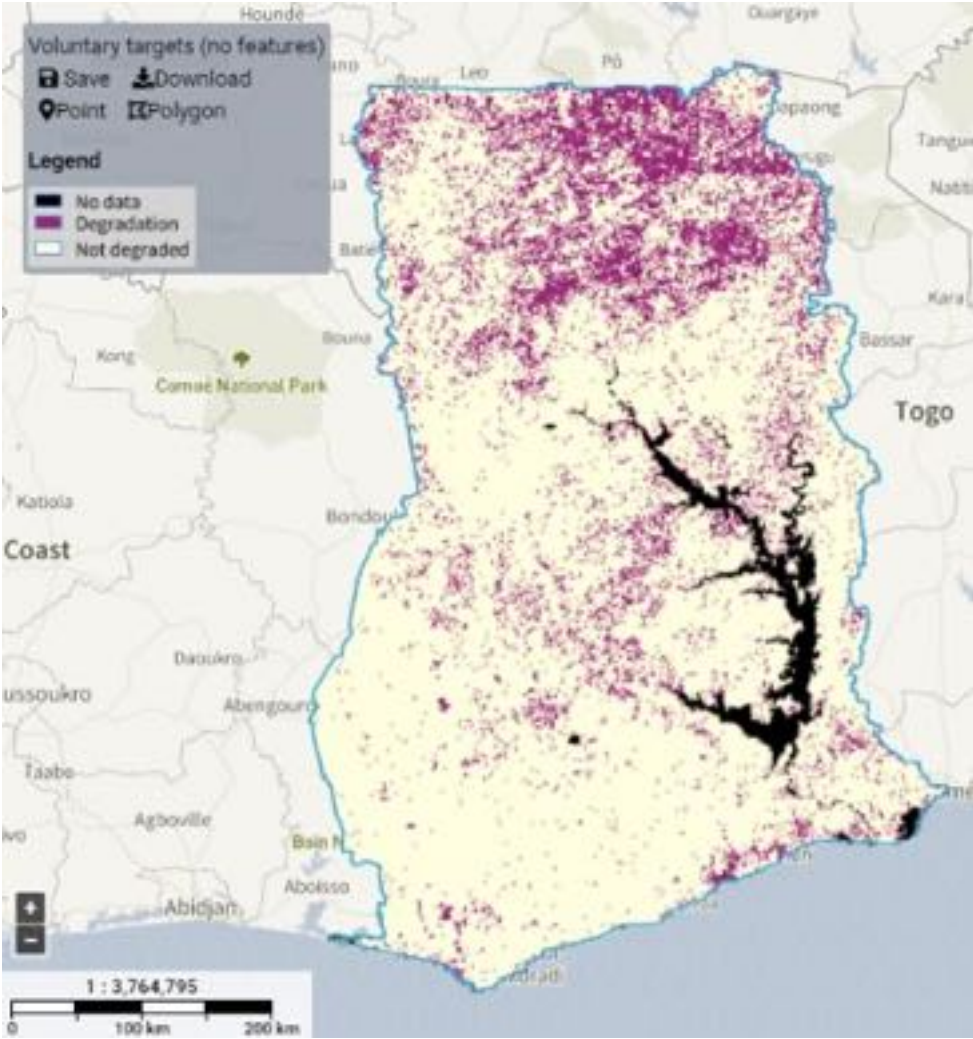


LAND
PRODUCTIVITY

SOIL
ORGANIC
CARBON

“ONE OUT
ALL OUT”

SDG 15.3.1



Default data from PRAIS 4 - not validated by the country

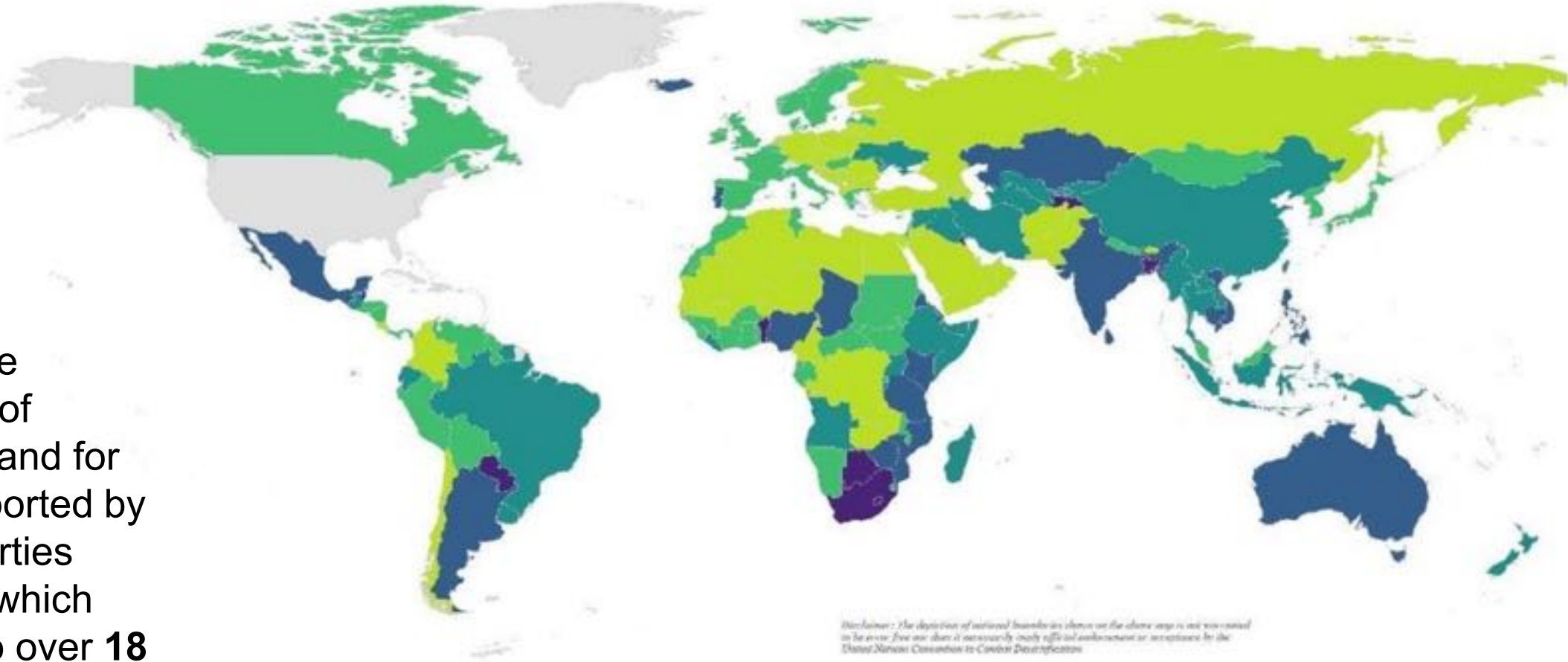
Outcomes



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In 2018, the proportion of degraded land for all land reported by country Parties was **20%**, which amounts to over **18 million km²**



Disclaimer: The depiction of national boundaries shown on the above map is not intended to be used for any other purpose than to illustrate the geographical context of the data reported to the United Nations Convention to Combat Desertification.





METHODOLOGY

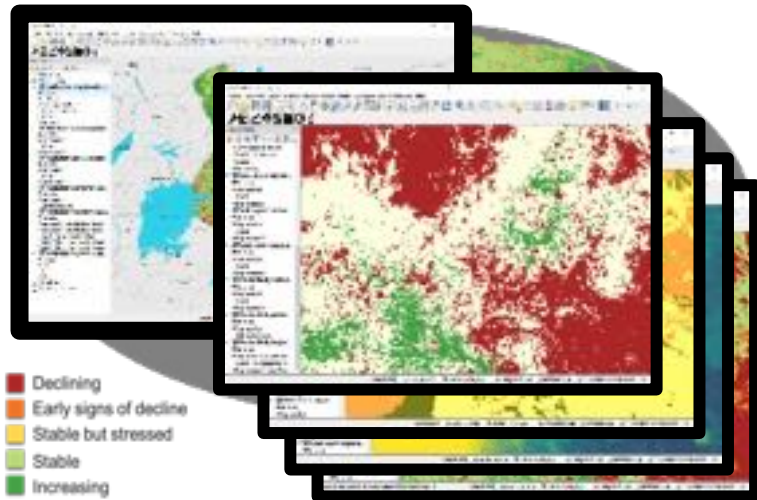
TOOLS

Key Enablers

DEFAULT DATA

CAPACITY BUILDING

TRENDS.EARTH



Opportunities and Challenges



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Opportunities



- Quasi-global data
- Comparability across countries
- Regular and repeatable observations
- Cost-effectiveness
- Cloud-based solutions

Challenges



- Limited national ownership
- Limited technical expertise in countries (digital literacy)
- Difficulties in accessing and processing large amounts of data
- Restrictive data policies
- Inconsistent estimates from different data products
- Lack of multi-decadal high-resolution products

Growing support from the EO community



- ...is a **stakeholder-driven and user-centered initiative** with a clear policy mandate from UNCCD
- ...helps national and local actors in all countries **use EO to plan, implement and monitor LDN**
- ... is highly **collaborative** (consensus-based, open access, open source, common core methods/standards)



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Thank you!

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