



SUPPORTING A RESILIENT
& SUSTAINABLE WORLD

GEO WEEK 2018

29.10-2.11 • KYOTO, JAPAN • #GEOWEEK18

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Land Degradation Neutrality (LDN) GEO LDN Initiative

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Laying the Groundwork



LAND DEGRADATION
NEUTRALITY INITIATIVE

COP13 (2017) invited GEO to support the UN Convention to Combat Desertification by providing **space-based information and in situ measurements** to fulfill the reporting requirements for SDG indicator 15.3.1...capacity building, data access and standards

- GEO XIV: community activity on Land Degradation Neutrality (LDN) was created
- GEO LDN Interim Steering Committee was established and has drafted TOR, etc.

Mar-May 2018: UNCCD capacity building workshops
5 regions with over 140 countries
facilitate UNCCD/SDG reporting & assess user needs

SDG target 15.3: “By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and **strive to achieve a land degradation-neutral world.**”

SDG indicator 15.3.1:

“Proportion of land that is degraded over total land area”



Mission and Objectives



**LAND DEGRADATION
NEUTRALITY INITIATIVE**



SDG indicator 15.3.1 uses EO datasets to estimate change in three sub-indicators:

land cover,
land productivity,
(soil) organic carbon stocks



LDN is much broader than monitoring & reporting

connect data providers to data users to optimize the use of EO datasets for LDN assessment, planning, implementation, monitoring and reporting

promote the collaborative development, and support the provision and use, of EO datasets, quality standards, analytical tools and capacity building

Tools and Momentum



TRENDS.EARTH

- Developed by Conservation International
- Operates as a free plugin to QGIS 2.18.x
- Supports integration of default data, other global data products & national data

Lesson Learned

- Default data can facilitate reporting
- Automated processing to use default and integrate national data
- Guidance and datasets for national circumstances
- Practical hands on training with relevant stakeholders
- Capacity building as a continuous process

The screenshot displays the TRENDS.EARTH software interface. At the top, there is a toolbar with icons for various functions. The main window shows a 'Calculate Indicators' dialog box with two steps:

Step 1: Prepare sub-indicators

Option 1: Use default UNCCD data

Option 2: Use customized data

Step 2: Calculate final SDG 15.3.1 indicator

Option 1: Use single unit for analysis (e.g. country boundary)

Option 2: Use sub-units for analysis (e.g. province, state or district boundaries)

Below the dialog box is a table titled 'Summary of SDG 15.3.1 Indicator':

	Area (sq km)	Percent of total land area
Total land area:	204,483.5	100.00%
Land area improved:	55,463.2	27.12%
Land area stable:	94,652.8	46.29%
Land area degraded:	53,966.4	26.39%
Land area with no data:	401.0	0.20%

The interface also features three maps of a region, showing different data layers and the final indicator results. The bottom of the screenshot includes the Conservation International logo and the TRENDS.EARTH logo with the tagline 'tracking land change'.

Next Steps



Leverage the contributions of shareholders and stakeholders to support the Steering Committee and 3 Working Groups

a) to build capacities at the (sub) national level
**host/organize sub-regional workshops*

b) to develop minimum data quality standards-specifications
**technical support for setting quality standards*
**global consultation to revise Good Practice Guidance*

c) to work to establish a federated collaborative platform
**help pilot big data analytics tools/integrate in-situ data*

On behalf of the Co-Chairs

Neil Sims (Australia)

Antje Hecheltjen (Germany)

Amos Kabobah (Ghana)

Thank you for your support

All are welcome

GEO LDN Steering Committee meeting

Friday 02 November -- 10:00-13:00

Room K