



## PROJECT IMPLEMENTATION REPORT (PIR)

for the project:

### Strengthening Land Degradation Neutrality data and decision-making through free and open access platforms (Tools4LDN)

**FY21**

*July 1, 2020 – June 30, 2021*

#### Executing Partners



Global Health  
Institute



## Project Information

<b>Project Title:</b>	Strengthening Land Degradation Neutrality data and decision-making through free and open access platforms		
<b>Country(ies):</b>	Global	<b>GEF ID:</b>	10230
<b>GEF Agency(ies):</b>	Conservation International	<b>Duration In Months:</b>	30
<b>Executing Agency(ies):</b>	Conservation International (Trends.Earth), University of Colorado (LandPKS), Bern University (WOCAT) and University of California Santa Barbara (Planetary Health Institute)	<b>Actual Implementation Start Date:</b>	September 5, 2019
<b>GEF Focal Area(s):</b>	Global, including pilot country (Colombia)	<b>Expected Project Completion Date:</b>	February 28, 2023
<b>GEF Grant Amount:</b>	\$2,000,000	<b>Expected Financial Closure Date:</b>	August 31, 2023
<b>Expected Co-financing:</b>	\$397,700	<b>Date of Last Steering Committee Meeting:</b>	May 2021
<b>Co-financing Realized as of June 30, 2021:</b>	\$152,218	<b>Mid-Term Review-Planned Date:</b>	N/A
<b>Date of First Disbursement:</b>	September 5, 2019	<b>Mid-Term Review-Actual Date:</b>	N/A
<b>Cumulative Expenditures as of June 30, 2021:</b>	\$933,186	<b>Terminal Evaluation-Planned Date:</b>	October 2022
<b>PIR Prepared by:</b>	Conservation International	<b>Terminal Evaluation-Actual Date:</b>	N/A
<b>CI-GEF Program Manager:</b>	Free de Koning	<b>CI-GEF Finance Lead:</b>	Susana Escudero

## **SECTION I: PROJECT IMPLEMENTATION PROGRESS STATUS SUMMARY**

### **PROJECT SUMMARY**

The Global Environment Facility (GEF)-funded project entitled “Strengthening Land Degradation Neutrality data and decision-making through free and open access platforms”, known as Tools4LDN, is combining tools, databases and expertise from leading organizations and universities researching and implementing best practices and approaches to avoiding, reducing, and reversing land degradation. The Tools4LDN project is designed to provide improved methods for assessing land degradation and understanding the socio-economic conditions of vulnerable communities in affected areas through the integration of free and open platforms to support both country-level reporting to the UNCCD and on the ground actions needed to achieve and exceed land degradation neutrality. The Tools 4 LDN Project has four major outcomes: 1) Improvement of the land degradation biophysical indicators used to support monitoring land degradation neutrality; 2) Understanding the socio-environmental interactions between drought, land degradation, and poverty to support development of monitoring frameworks for UNCCD strategic objectives 2 and 3; 3) Supporting planning and monitoring of land degradation neutrality (LDN) priorities from field to national scales; 4) Supporting UNCCD and its signatory countries by building capacity to support planning, monitoring, and reporting.

### **PRIOR PROJECT IMPLEMENTATION STATUS**

This is the first year of implementation. No prior project implementation status.

### **CURRENT PROJECT IMPLEMENTATION STATUS (FY21)**

The Tools4LDN project is entering its middle phase of implementation and the project team is currently implementing Components 1, 2 and 3. Consistent with the project workplan, the team has completed the release of a new version of the Trends.Earth plugin has integrated outputs from Trends.Earth into the Land Potential Knowledge System (LandPKS) mobile application, completed two reports outlining datasets in support of drought monitoring and exposure to desertification, land degradation, and drought (UNCCD SO3 and SO2), developed a proposal for pilot activities in Colombia, and is continuing work on integrating World Overview of Conservation Approaches and Technologies (WOCAT) datasets into LandPKS. The project has experienced some delays, in part due to delays in signing partner agreements, but largely due to the COVID-19 pandemic. The pandemic has impacted both domestic and international travel scheduled for the project, including several key meetings, and activities in the pilot country (Colombia). As a result, the project submitted a no-cost extension request to the CI-GEF in May 2021, and the team is continuing all work for Components 1, 2, and 3 remotely, and still plans to meet all the objectives laid out at the outset of the project.

Under Component 1, the report on geospatial datasets and methods has been completed and is available on the project website (<https://www.tools4ldn.org/>) in English (<https://www.tools4ldn.org/resources>) and Spanish (<https://www.tools4ldn.org/recursos>). This report laid the groundwork for the release of additional and finer spatial resolution biophysical datasets (e.g., 2-Band Enhanced Vegetation Index at 250 m, Modified Soil Adjusted Vegetation Index at 250 m, and Land Productivity at 10 m) in Trends.Earth to support monitoring of the land degradation biophysical indicators.

Work on Component 2 is currently underway in close coordination with the UNCCD Secretariat to complement the revised Good Practice Guidance (GPG) on reporting for SDG indicator 15.3.1, and the new GPG on Strategic Objective 3 (SO3). The project has completed two reports (available on the project website) evaluating datasets and indicators for inclusion in Trends.Earth in support of 1) drought monitoring, and 2) UNCCD Strategic Objective 2 (SO2), on improving the living conditions of populations affected by desertification, land degradation, and drought. Datasets have been added to Trends.Earth (Drought Hazard at 5km and 30km, Drought Exposure at 5km and 30km, Drought Vulnerability at 10km) in alignment with the conclusions of these reports to support country reporting on SO2 and SO3 to UNCCD. The project continues to receive positive feedback from the UNCCD Secretariat, and from other key stakeholders on the contributions Trends.Earth has and will continue to make to standardize and streamline the reporting process.

Under Component 3, the project held a workshop to design the integration of data from Trends.Earth with LandPKS. This allows for the systematic verification of degradation trends (changes in land productivity) with information collected in the field – which will support monitoring of progress made under the LDN Target Setting Program, and the collection of land condition and management information on the ground, which will be critical for planning.

Under Component 4, the project team continues frequent contact with the UNCCD Secretariat and supports a direct linkage between Trends.Earth and the new reporting platform the Secretariat is developing for the next reporting cycle beginning in late 2021.

The team continues to maintain contact with other ongoing efforts in the land degradation monitoring community, including with the European Space Agency (ESA), Food & Agricultural Organization (FAO), Joint Research Centre (JRC) of the European Commission, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Group on Earth Observation (GEO), LDN Initiative (within which CI co-leads the data analytics component), and other stakeholders to ensure that the project is linked with current and past projects and draws on and builds upon existing datasets and the existing body of knowledge. To coordinate project activities and review project outputs, the project has built and maintained two oversight panels: a Steering Committee (SC), and a Science Advisory Board (SAB). The project has held quarterly SC meetings and submitted technical outputs to the SAB for peer review.

Several project activities, particularly in Component 2, were initially delayed due to the signing of agreements with a number of project partners later than planned, given complexities in finalizing contracts with some partners. The project has also been affected by the pandemic, causing slight delays across all components, in particular those linked to piloting activities in Colombia, and those dependent in part on outputs from external groups (for example a number of the datasets in Component 1). The project partners, SC and SAB span across eight different time zones, which has complicated planning of remote meetings and collaboration on project work, and team members have needed to balance remote work with increased responsibilities at home, further challenging scheduling. Project work has continued, however, making heavy use of online meetings to replace travel that was originally planned to collaborate with partners, and the project continues to progress despite these challenges. The project is on target to update the Trends.Earth toolbox in alignment with the beginning of the UNCCD reporting cycle in late 2021 and continuing to work closely with stakeholders in Colombia to plan capacity building activities that are safely adapted to current world conditions, while also looking towards opportunities to use online trainings to reach a broader audience that was originally planned. The project will also leverage opportunities such as the UNCCD COP, GEO-LDN, and other venues to disseminate the project's outputs.

The project team is currently continuing implementation of Components 1, 2, and 3 as the project shifts into its second full year of activities, with further activities related to Component 4 starting this year. The team will continue its close engagement with UNCCD, pilot country stakeholders, and other partners and will be flexible in the use of remote meetings, webinars, and other avenues when travel or on-the-ground activities cannot be safely conducted.

### SUMMARY: PROJECT IMPLEMENTATION PROGRESS STATUS

PROJECT PART	PRIOR (FY21) IMPLEMENTATION PROGRESS RATING	CURRENT FY21 IMPLEMENTATION PROGRESS RATING <sup>1</sup>	RATING TREND <sup>2</sup>
OBJECTIVE	N/A	S	N/A
COMPONENTS AND OUTCOMES	N/A	S	N/A
ENVIRONMENTAL & SOCIAL SAFEGUARDS	N/A	S	N/A

### PROJECT RISK RATING<sup>3</sup>

RISKS	N/A	M	N/A
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<sup>1</sup> **Implementation Progress (IP) Rating:** Highly Satisfactory (HS), Satisfactory (S), Moderately Satisfactory (MS), Moderately Unsatisfactory (MU), Unsatisfactory (U), and Highly Unsatisfactory (HU). For more details about IP rating, please see the Appendix I of this report

<sup>2</sup> **Rating trend:** Improving, Unchanged, or Decreasing

<sup>3</sup> **Risk Rating:** Low (L), Moderate (M), Substantial (S), High (H)

## **SECTION II: PROJECT RESULTS IMPLEMENTATION PROGRESS STATUS AND RATING**

This section describes the progress made towards achieving the project objective and outcomes, the implementation progress rating of the project, as well as recommendations to improve the project performance. This section is composed four parts:

- a. Progress towards Achieving Project Expected Objective: this section measures the likelihood of achieving the objective of the project
- b. Progress towards Achieving Project Expected Outcomes (by project component)
- c. Overall Project Results Progress Rating, and
- d. Recommendations for improvement

### **a. Progress towards Achieving Project Expected Objective:**

This part of the report assesses the progress in achieving the objective of the project.

<b>PROJECT OBJECTIVE:</b>	To provide improved methods and tools for assessing land degradation and understanding the socio-economic conditions of vulnerable communities in affected areas through the integration of free and open platforms to support country level implementation and reporting to the UNCCD.
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OBJECTIVE INDICATORS	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>4</sup>	COMMENTS/JUSTIFICATION
<b>Objective Indicator a:</b> Number of datasets to estimate national and subnational-level trends of land degradation added to the Trends.Earth toolbox and made freely available.	1 report, 2 datasets, 1 module	<b>CA</b>	Report completed on available datasets for improving spatial resolution available on the project website in English ( <a href="https://www.tools4ldn.org/resources">https://www.tools4ldn.org/resources</a> ) and Spanish ( <a href="https://www.tools4ldn.org/recursos">https://www.tools4ldn.org/recursos</a> ). The open-source, cloud-based toolbox, known as Trends.Earth was updated to the latest version of QGIS (v. 3+), adding two high spatial resolution datasets for assessing changes in primary productivity (NDVI land productivity at Sentinel 2 scale (10m resolution) for 2018 and 2019) and one module for integrating high spatial resolution land productivity, land cover and soil organic carbon into Trends.Earth.
<b>Objective Indicator b:</b> Number of datasets in support of UNCCD Strategic objectives 2 and 3 reporting added to	2 reports, 5 datasets	<b>CA</b>	Two reports outlining the datasets in support of UNCCD SO2 and SO3 are completed and available on the project website in English ( <a href="https://www.tools4ldn.org/resources">https://www.tools4ldn.org/resources</a> ) and Spanish

<sup>4</sup> **O**= Overdue; **D**= Delayed; **NS**= Not started on schedule; **IS**= Under implementation on schedule; and **CA**= Completed/Achieved

OBJECTIVE INDICATORS	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>4</sup>	COMMENTS/JUSTIFICATION
the Trends.Earth toolbox and made freely available			(https://www.tools4ldn.org/recursos), which include the addition of two climate datasets (GPCC at 30km global coverage & CHIRPS at 5km for 50N-50S) and three socio-economic datasets (WorldPop and Gridded Population of the World, Drought Vulnerability at 10 km scale) into Trends.Earth. The project is working closely with experts contracted by the UNCCD Secretariat who are evaluating indicators for reporting SDG 15.3.1. This objective was postponed due to contracting delays, and the pandemic prohibiting travel and in person activities. The work resumed and is nearly complete.
<b>Objective Indicator c:</b> Number of mobile applications and databases to support assessment of land degradation at varying scales integrated into user ready workflows	1 mobile application, 1 database	<b>IS</b>	The project is currently engaging with one database and one mobile application to support the assessment of land degradation at varying scales. The LandPKS mobile application now allows users to display outputs on climate and productivity from Trends.Earth and data from the WOCAT SLM database. The Trends.Earth toolbox will have modules that support the visualization of the three additional databases: WOCAT SLM datasets, data from LandPKS and validation data collected use CollectEarth (FAO).
<b>Objective Indicator d:</b> Number of guidance documentation and capacity-building materials completed and available	0 guidance documents and capacity-building materials completed and available	<b>O</b>	The development of guidance and capacity-building documents will commence upon testing and completion of the integration of the tools. The guidance documents and capacity-building materials will be prepared for the use of additional datasets and methods in Trends.Earth and the use of the WOCAT database and Trends.Earth outputs in LandPKS. All the above materials will be available on the project website. The timeline of this activity is modified in the FY22 Work Plan and request for project extension to adjust to delays in activities that require completion before the preparation of these activities.

OBJECTIVE INDICATORS	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>4</sup>	COMMENTS/JUSTIFICATION
<b>Objective Indicator e:</b> Number of users, disaggregated by gender, trained on integrated approaches for assessing land condition through online and in person capacity building efforts	344 users (129 women, 215 men)	<b>IS</b>	The project team continues to hold remote engagements with stakeholders for use of the tools. In FY21, the project trained 344 users on Trends.Earth for assessing land condition in remote workshops, webinars and conferences. In person activities have not been possible due to the COVID-19 pandemic. The team continues to develop the integration of all tools and communicate with the pilot country, Colombia (CI Colombia and Government of Colombia) should in person activities safely resume in the project timeline. Additional online training will be scheduled for training stakeholders on the integrated approaches for assessing land condition in FY22. These remote trainings will be available to additional stakeholders outside the pilot country, enabling extended engagement and tool uptake outside of efforts planned during the project's design.

OBJECTIVE IMPLEMENTATION PROGRESS RATING	JUSTIFICATION
<b>S</b>	Three reports were completed: one on available datasets for improving spatial resolution, and two reports that outline the datasets in support of UNCCD SO2 and SO3. Furthermore, several data sets were added to Trends.Earth: two high spatial resolution datasets for assessing changes in primary productivity, two climate datasets and three socio-economic datasets were added. One module for integrating high spatial resolution land productivity, land cover, and soil organic carbon was included in Trends.Earth. The project engaged with the LandPKS mobile application, which now allows users to display outputs on climate and productivity from Trends.Earth and data from the WOCAT SLM database. The project has experienced delays due to the COVID-19 pandemic. The pandemic has impacted both domestic and international travel scheduled for the project, including several key meetings, and activities. Because of the pandemic, capacity building has been online as no in-person training was possible. A no-cost extension with an adjusted timeline was prepared, and it is expected that the project will deliver all results as described in the project document.

**b. Progress towards Achieving Project Expected Outcomes (by project component).**

This part of the report assesses the progress towards achieving the outcomes of the project.

<b>COMPONENT 1</b>	Improvement of land degradation biophysical indicators to support monitoring towards land degradation neutrality
<b>Outcome 1.1:</b>	High spatial resolution (10-30m) datasets available through Trends.Earth

OUTCOMES TARGETS/INDICATORS	END OF PROJECT INDICATOR TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>5</sup>	COMMENTS/JUSTIFICATION
<b>Indicator 1.1.:</b> Number of high spatial resolution datasets added to Trends.Earth and readily available for users	Users able to run land degradation assessments with globally provided high spatial resolution datasets through Trends.Earth	1 report, 2 datasets	CA	The project team has completed the technical report on using higher resolution datasets for reporting on land degradation, and it is available on the project website in English ( <a href="https://www.tools4ldn.org/resources">https://www.tools4ldn.org/resources</a> ) and Spanish ( <a href="https://www.tools4ldn.org/recursos">https://www.tools4ldn.org/recursos</a> ). Two high resolution datasets are processed. The functionality to run higher resolution analyses in Trends.Earth using this data is currently under implementation and will be available for users to run land degradation assessments by Q2 FY22. One report noted in targets 2.1.1. in the ProDoc should fall under this indicator and is complete.

COMPONENT 1 IMPLEMENTATION PROGRESS RATING	JUSTIFICATION	RATING TREND
<b>S</b>	While the technical report on higher resolution datasets for reporting on land degradation has been finalized, the two datasets are not ready yet to run assessments in Trends.Earth. The work on the datasets is progressing however, and expected to be ready later in 2021. Progress is therefore rated as satisfactory.	N/A

<b>COMPONENT 2</b>	Understanding the socio-environmental interactions between drought, land degradation, and poverty to support development of monitoring frameworks for UNCCD strategic objectives 2 and 3
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<b>Outcome 2.1:</b>	Improved understanding of the interactions between land degradation, drought, and socioeconomic factors as they contribute to the development of vulnerable communities
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OUTCOMES TARGETS/INDICATORS	END OF PROJECT INDICATOR TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>6</sup>	COMMENTS/JUSTIFICATION
<b>Indicator 2.1.:</b> Number of reports on the interactions between land degradation, drought and socioeconomic factors completed readily	Progress made on understanding the interplay of land degradation, drought and socio-economic vulnerability and	2 reports	CA	The project is currently collaborating with the UNCCD Secretariat and the experts developing Good Practice Guidance on the components while the project team provides scientific input on SO2 and SO3. Two reports evaluating approaches for assessing socioeconomic vulnerability to drought and interplay with land degradation are completed (available on the project website in English ( <a href="https://www.tools4ldn.org/resources">https://www.tools4ldn.org/resources</a> ) and Spanish ( <a href="https://www.tools4ldn.org/recursos">https://www.tools4ldn.org/recursos</a> )), that identify five datasets

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<sup>6</sup> **O**= Overdue; **D**= Delayed; **NS**= Not started on schedule; **IS**= Under implementation on schedule; and **CA**= Completed/Achieved



OUTCOMES TARGETS/INDICATORS	END OF PROJECT INDICATOR TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>6</sup>	COMMENTS/JUSTIFICATION
available for key stakeholders	identification of key datasets which can be used to track progress as part of UNCCD SO2 and 3			on drought and early warning and socioeconomic datasets (Land Productivity at 10m for 2018 and 2019, Drought Hazard, Drought Exposure, Drought Vulnerability). These datasets will be added to Trends.Earth in FY22 according to the FY22 Work Plan and revised timeline with the project extension. The third report noted in the ProDoc should fall under 1.1.

COMPONENT 2 IMPLEMENTATION PROGRESS RATING	JUSTIFICATION	RATING TREND
<b>S</b>	The two technical reports are ready, as well as the five datasets. Integration of the datasets in TrendsEarth is planned to be finalized within the revised timeline. Progress is therefore rated as satisfactory.	N/A

<b>COMPONENT 3</b>	Support planning and monitoring of land degradation neutrality (LDN) priorities from field to national scales
<b>Outcome 3.1:</b>	Approaches to support monitoring of LDN target progress integrating field data collection and remote sensing data at multiple scales developed
<b>Outcome 3.2:</b>	Decision support tool for identifying LDN priorities implemented into Trends.Earth
<b>Outcome 3.3:</b>	Pilot testing and capacity building completed

OUTCOMES TARGETS/INDICATORS	END OF PROJECT INDICATOR TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>7</sup>	COMMENTS/JUSTIFICATION
<b>Indicator 3.1.:</b> Number of approaches to support monitoring of LDN target progress integrating field and remote sensing data completed and available through project website	Tools for assessing land condition and sustainable land management at the field level and tools for assessing land degradation from remote sensing data will be integrated into user-friendly workflows to	1 tool for assessing land condition and sustainable land management at the field level; 1 tool for assessing land degradation at field level from remote sensing data	O	The design of tool integration is completed following workshops held on 1) the integration of Trends.Earth outputs and WOCAT SLM database into LandPKS for assessing land condition and sustainable land management at the field level and 2) the integration of LandPKS and WOCAT SLM into Trends.Earth for assessing land degradation from remote sensing data. Completion of tool integration is scheduled for FY22, on target with the revised timeline including the no-cost extension noted in the FY22 Work Plan.

<sup>7</sup> O= Overdue; D= Delayed; NS= Not started on schedule; IS= Under implementation on schedule; and CA= Completed/Achieved

OUTCOMES TARGETS/INDICATORS	END OF PROJECT INDICATOR TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>7</sup>	COMMENTS/JUSTIFICATION
	improve land degradation assessments at multiple scales.			
<b>Indicator 3.2.:</b> Number of modules added to Trends.Earth to support decision making for LDN planning	Improved functionalities added into Trends.Earth to support stakeholders on identifying priority sites for intervention while planning for LDN	0 modules added to Trends.Earth	O	The modules to support decision making for LDN will be designed and implemented in Trends.Earth in FY22. A workshop with the stakeholders (including Steering Committee and pilot country partners) will be held in order to identify the needs of the decision-making system before the design process commences. This revision was made in the FY22 Work Plan to take place later in the project timeline with the extension and following the completion of tool and dataset integration.
<b>Indicator 3.3.:</b> Pilot testing and capacity building completed	Experience on the integrated usage of tools and approaches for assessing and monitoring progress towards LDN which will serve as case studies for users from other geographies	0 capacity building activities; 0 pilot testing activities completed.	NS	Pilot testing has not been started due to the COVID pandemic and will be carried out in FY22 in accordance with the revised timeline outlined in the FY22 work plan and no-cost extension.

COMPONENT 3 IMPLEMENTATION PROGRESS RATING	JUSTIFICATION	RATING TREND
<b>MS</b>	Activities have been delayed because of the pandemic. While the design of the tool integration has been completed, the integration itself will take place in FY22. Likewise, the modules to support decision making will be designed and implemented in Trends.Earth in FY22. Capacity building will happen subsequently. A new timeline has been established for this component.	N/A

<b>COMPONENT 4</b>	Support UNCCD and its signatory countries by building capacity to support planning, monitoring, and resource mobilization for LDN
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<b>Outcome 4.1:</b>	Online and in-person capacity building on planning, monitoring, and reporting of LDN in support UNCCD 2021-2022 reporting cycle completed
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OUTCOMES TARGETS/INDICATORS	END OF PROJECT INDICATOR TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>8</sup>	COMMENTS/JUSTIFICATION
<b>Indicator 4.1.:</b> Number of online training modules produced and made available through project website	National capacity to access and process data to estimate degradation improved	0 modules.	D	Engagement with stakeholders in the pilot country of Colombia is ongoing, and the development of training modules will be made available in conjunction with planned in person and/or remote capacity building activities in FY22/23, which includes the postponed UNCCD regional workshops for LDN target setting, monitoring and reporting.

COMPONENT 4 IMPLEMENTATION PROGRESS RATING	JUSTIFICATION	RATING TREND
<b>MS</b>	While engagement with stakeholders has started, activities have been delayed because of postponed workshops due to the pandemic. A new timeline has been established for this component.	N/A

### c. Overall Project Results Rating

#### OVERALL PROJECT RESULTS IMPLEMENTATION RATING

OVERALL RATING	JUSTIFICATION	RATING TREND <sup>9</sup>
<b>S</b>	The project has experienced delays, which were largely due to the COVID-19 pandemic. The pandemic has impacted both domestic and international travel scheduled for the project, including several key meetings, and activities in the pilot country (Colombia). Progress on components 1 and 2 was rated as satisfactory, while progress on components 3 and 4 was rated as moderately satisfactory. Given the original planning of the project, the overall project results rating is satisfactory. With the adjusted timeline and no cost extension, it is expected that the project will deliver all results as described in the project document.	N/A

### d. Recommendations`

CORRECTIVE ACTION(S)	RESPONSIBLE PARTY	DEADLINE
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<sup>8 8</sup> **O**= Overdue; **D**= Delayed; **NS**= Not started on schedule; **IS**= Under implementation on schedule; and **CA**= Completed/Achieved

<sup>9</sup> **Rating trend:** Increasing, Unchanged or Decreasing

<p>Corrective action has already been taken through the preparation of a new timeline and the signing of a No Cost Extension. Delays were largely due to the COVID-19 pandemic. The pandemic has impacted both domestic and international travel scheduled for the project, including several key meetings, and activities in the pilot country (Colombia).</p>	<p>Project team.</p>	
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### SECTION III: PROJECT RISKS STATUS AND RATING

#### a. Progress towards Implementing the Project Risk Mitigation Plan

This section describes the activities implemented to manage and reduce high, substantial, modest, and low risks of the project. This section has three parts:

- a. Ratings for the progress towards implementing measures to mitigate project risks and a project risks annual reassessment
- b. Justification for Progress Rating, and
- c. Recommendations for improving project risks management

#### a. Progress towards Implementing the Project Risk Mitigation and Plan Project Risks Annual Reassessment

PROJECT RISKS	PRODOC RISK MITIGATION MEASURE	MITIGATION MEASURES IMPLEMENTATION	PROGRESS RATING <sup>10</sup>	COMMENTS/JUSTIFICATION	PRODOC RISK RATING	CURRENT FY21 RISK RATING	RISK RATING TREND <sup>11</sup>
<b>Risk 1:</b> Lack of support from pilot country in capacity building activities	Identify country partners for project implementation and gain support from the UNCCD/GEF focal points prior to country selection.	The project invited stakeholders from Colombia, the pilot country to be involved with the Inception Workshop and continues to engage directly with ministries within Colombia and focal points for UNCCD/GEF.	IS	Although unable to travel in person, stakeholders from Colombia attended the Inception Workshop for the project and there was significant support from the government of Colombia in the initial stakeholder meeting. However, given the delay in field activities due to COVID, and expected continuing safety concerns regarding on-the-ground engagement, this risk rating has been increased. The project continues remote engagement with partners in the pilot country and will continue to be flexible in the mode of engagement as conditions change. The no-cost extension requested in May 2021 will allow further time for these activities, to ensure the project is able to meet its stated goals in a safe manner that is supportive of the pilot country's interests.	Low	Medium	Increasing

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<sup>11</sup> **Rating trend:** Increasing, Unchanged or Decreasing

PROJECT RISKS	PRODOC RISK MITIGATION MEASURE	MITIGATION MEASURES IMPLEMENTATION	PROGRESS RATING <sup>10</sup>	COMMENTS/JUSTIFICATION	PRODOC RISK RATING	CURRENT FY21 RISK RATING	RISK RATING TREND <sup>11</sup>
<b>Risk 2:</b> Lack of gender balance in capacity building activities and project execution	Identify stakeholders from diverse background and ensure that no less than 50% of invited participants are female.	The project has identified female leadership within the project team and seeks to connect with more female lead organizations within the project country.	IS	It is difficult to engage remotely with an equal representation of gender when key personnel essential for engaging within the country and across stakeholders' organizations are male. The project team will engage with the gender consultant, hired by UNCCD to improve gender balanced stakeholder engagement while assessing access to technical outputs of the project and how gender may influence receipt of these technologies in the pilot country.	Low	Modest	Increasing
<b>Risk 3:</b> Delay in project deliverables from partners relying on other components to complete	Gain approval of all activities and deadlines by project partners and track monthly progress on activities.	The project has created several centralized resources to keep projects on track of activity progress. These resources are equally available to all partners and provide transparency across all project activities.	IS	The Project Management Team created several resources to track progress on project activities 1) a SharePoint site for centralized access to all project documentation, 2) a tracking document so breakdown of activities can be organized to set intermediate deadlines on each project activity. These allow all project partners to monitor progress on activities across the project.	Low	Low	Unchanged

PROJECT RISKS MITIGATION MEASURES RATING	JUSTIFICATION	RISK RATING TREND <sup>12</sup>
<b>M</b>	The project has experienced delays due to the COVID-19 pandemic and therefore the risks have increased. The pandemic has impacted both domestic and international travel scheduled for the project, including several key meetings, and activities. Because of the pandemic, capacity building has been online as no in-person training was possible. A no-cost extension with an adjusted timeline was prepared, and it is expected that the project will deliver all results as described in the project document.	N/A

<sup>12</sup> **Rating trend:** Increasing, Unchanged or Decreasing

## Recommendations

MITIGATION AND CORRECTIVE ACTION(S)	RESPONSIBLE PARTY	DEADLINE
Corrective action has already been taken through the preparation of a new timeline and the signing of a no-cost Extension. Delays were largely due to the COVID-19 pandemic. The pandemic has impacted both domestic and international travel scheduled for the project, including several key meetings, and activities in the pilot country (Colombia).	Project team.	

## **SECTION IV: PROJECT ENVIRONMENTAL AND SOCIAL SAFEGUARDS IMPLEMENTATION STATUS AND RATING**

This section of the PIR describes the progress made towards complying with the approved Environmental and Social Safeguard plans, as well as recommendations to improve the implementation of the safeguard plans, when needed. This section is divided in three parts:

- a. Progress towards Complying with the CI-GEF Project Agency’s Environmental & Social Safeguards
- b. Overall Project Safeguard Implementation Rating
- c. Recommendations

### **a. Progress towards Complying with the CI-GEF Project Agency’s Environmental & Social Safeguards**

MINIMUM SAFEGUARD INDICATORS	PROJECT TARGET	END OF YEAR STATUS	PROGRESS RATING <sup>13</sup>	COMMENTS/JUSTIFICATION
<b>ACCOUNTABILITY AND GRIEVANCE MECHANISM</b>				
1. Number of conflict and complaint cases reported to the project’s Accountability and Grievance Mechanism	0	0	IS	<p>No grievances have been submitted or reported to date. The Project Manager continues to monitor the submissions via the Grievance Mechanism on the website: <a href="https://www.tools4ldn.org/contact">https://www.tools4ldn.org/contact</a></p> <p>The Grievance Mechanism was announced at all official project events:</p> <ol style="list-style-type: none"> <li>1) Inception Workshop (30/31 October 2019) with all partner organizations attended including representatives from CI, CI-GEF, UCSB, UB, CU, GEF Focal Point (Colombia)</li> <li>2) Integration Design Workshop, Boulder, CO (20-25 February 2020) with representatives from CI, CI-GEF, UCSB, UB, CU</li> </ol> <p>It will also be announced during upcoming virtual workshops:</p> <ol style="list-style-type: none"> <li>3) Hacia la Integración de herramientas, conocimiento experto e indicadores nacionales para la evaluación de la Degradación de las Tierras en Colombia (7 September 2021)</li> <li>4) Capacity Building Workshop Series (21, 28 September and 5, 12, 19, 26 October 2021)</li> </ol> <p>We developed a form where people can submit grievances on our project website. The explanation of the form is available in English (<a href="https://www.tools4ldn.org/contact">https://www.tools4ldn.org/contact</a>) or Spanish (<a href="https://www.tools4ldn.org/contacto">https://www.tools4ldn.org/contacto</a>). It describes the steps for submitting a grievance providing several options:</p> <ol style="list-style-type: none"> <li>1) Submit grievance claim via form with contact details</li> <li>2) Submit grievance claim via form without contact details (anonymous)</li> <li>3) Submit grievance claim via email direct to Project Manager</li> <li>4) Submit grievance claim via CI’s EthicsPoint Hotline</li> </ol>

<sup>13</sup> **O**= Overdue; **D**= Delayed; **NS**= Not started on schedule; **IS**= Under implementation on schedule; and **CA**= Completed/Achieved



				<p>5) Submit grievance claim to the Director of Compliance, responsible for the CI Accountability and Grievance Mechanism</p> <p>The person submitting can decide how they prefer to receive communication response (no response, anonymous response (linked to the confirmation number in their message) or direct communication via email).</p>
2. Percentage of conflict and complaint cases reported to the project's Accountability and Grievance Mechanism that have been resolved	100%	100%	IS	There have not been any conflict or complaint cases for the project.
<b>GENDER MAINSTREAMING</b>				
1. Number of men and women that participated in project activities (e.g., meetings, workshops, consultations)	25 women/ 25 men	457: 170 women and 287 men have been involved in project activities	IS	As the COVID-19 pandemic delayed in person activities and meetings have gone remote, the project has engaged a number of stakeholders in FY21. A total of 170 women and 287 men were involved in meetings, workshops, and consultations in FY21, all held remotely due to the pandemic. There are currently 291 users in Trends.Earth user forum, however users are not required to disclose detailed information when joining this group that would allow collection of sex disaggregated information. The user group is being updated to request this information from new users, and the project is developing a survey of existing users to collect this information.
2. Number of men and women that received benefits (e.g., employment, income generating activities, training, access to natural resources, land tenure or resource rights, equipment, leadership roles) from the project	20 women/ 20 men	129 women and 215 men have received benefits from the project	IS	The main benefits of this project (beyond those that accrue globally through supporting parties to UNCCD) will be capacity building for technical tools to monitor and report trends in land degradation. From participation in online conference, webinars and trainings, we have trained 129 women and 215 men. Additional capacity building will be held in FY22 targeting pilot country and UNCCD training events. The project targets equal gender representation in beneficiaries and is analyzing how to increase participation of women during remote training opportunities planned in FY22.
3. Number of strategies, plans (e.g., management plans and land use plans) and policies derived from the project that include gender considerations (this indicator applies to relevant projects)	2	0	IS	As of FY21, the project has not written strategic plans, nor has it drafted policies. These activities have been postponed for FY22 due to the COVID-19 pandemic. The timeline of these activities will fall after tool integration, before and during capacity building efforts for the use of these tools.

<b>STAKEHOLDER ENGAGEMENT</b>				
1. Number persons (sex disaggregated) that have been involved in project implementation phase (on an annual basis)	8 women, 8 men	170 women and 287 men	IS	170 women and 287 men have been involved in the implementation phase in FY21. This includes a total count of stakeholders who attended meetings, training, workshops and webinars where the project was presented or capacity building on the use of tools were extended to users.
2. Number of stakeholder groups (government agencies, civil society organizations, private sector, indigenous peoples and other r groups) that have been involved in the project implementation phase (on an annual basis)	10	16 groups are officially involved in the project.	IS	University of Colorado, University of Bern, University of California – Santa Barbara, University of North Carolina – Wilmington, Brown University, Conservation International (including CI-Colombia), Government of Colombia (including Ministerio de Ambiente, Instituto Humbolt, El Bosque University Instituto de Hidrologia, Meterologia y Estudios Ambientales (IDEAM), Unidad de Planification Rural Agropecuaria (UPRA), Agrosavia, Sinchi, Ministry of Agriculture and Rural Development (MADR)), and Food and Agricultural Organization (FAO), UNCCD Secretariat.
3. Number of engagement (e.g., meeting, workshops, consultations) with stakeholders during the project implementation phase (on an annual basis)	8	25 engagements.	IS	We have presented the project through the following virtual engagements in FY21: FAO/CollectEarth, Argentina SDG 15.3.1 reporting team, PBL GLO2 Scenarios team, IDH/LDN Fund, FAO Task Force on Ecosystem Restoration, CSIRO, EO Data Science, GEO GEE, Crowther Lab, WMO-UKCEH, UNCCD GM, World Bank, Bonn University, GEO Knowledge Hub, UNCCD Secretariat, CBD Secretariat, AGU Fall Meeting 2020, SCGIS Webinar and GEO BON/GEO LDN.
4. Percentage of stakeholders who rate as satisfactory the level at which their views and concerns are taken into account by the project <i>(responsible party for measuring this indicator is CI-GEF Agency and this will be undertaken by the consultant hired by the CI-GEF Agency to conduct</i>				

the MTR and Terminal Evaluation)				
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**b. Information on Progress, challenges and outcomes on stakeholder engagement**

Describe the progress, challenges and outcomes on stakeholder engagement (based on the description of the Stakeholder engagement plan included at CEO Endorsement/Approval)

The project continues to engage stakeholders despite delays to in person activities due to the COVID-19 pandemic. The number of people, stakeholder groups, and engagements involved in the project implementation phase grew from the baseline target, exceeding all targets set in the Stakeholder Engagement Plan (SEP) in terms of number of people, groups, and engagements. We believe the stakeholder engagement will continue to increase throughout the remainder of the project, despite the challenges presented by the COVID-19 pandemic, exceeding the targets set in the SEP as we roll out capacity building efforts in FY22. For these engagements, we will continue to work with the pilot country to determine the feasibility of in person workshops, as planned with project activities. However, Colombia is currently facing a third wave of COVID-19, which could further delay in person activities. Remote workshops are planned as a backup option to ensure we reach our target stakeholders, but the project is also considering the potential for these remote activities to also enable the project to reach a broader audience in other geographies.

**c. Provide information on the progress towards achieving gender sensitive measures/targets**

Describe the progress towards achieving gender sensitive measures or targets as documented at CEO endorsement/approval in the gender action plan or equivalent

The targets for the Gender Mainstreaming Plan have exceeded the number of men and women who are involved in project activities and receive benefit from the project. We have not achieved the target number of strategies or plans at this time as the activities involving case studies or land use planning are postponed to FY22. We anticipate that we will reach this target by the end of FY22.

The pandemic will change the way we approach stakeholder engagement as workshops and meetings continue to be held remotely. The project will take measures to ensure that capacity building activities are aligned with the Gender Mainstreaming Plan, including a review of technical capacity building and gender in a remote environment.

**d. Overall Project Safeguard Implementation Rating**

**SUMMARY: PROJECT SAFEGUARD IMPLEMENTATION RATING BY TYPE OF PLAN**

SAFEGUARDSTRIGGERED BY THE PROJECT (delete those not applicable)	CURRENT FY21 IMPLEMENTATION RATING	RATING TREND
Accountability and Grievance Mechanisms	S	NA
Gender Mainstreaming Plan (GMP)	S	NA
Stakeholder Engagement Plan (SEP)	HS	NA

**OVERALL PROJECT SAFEGUARD IMPLEMENTATION RATING**

RATING	JUSTIFICATION	RATING TREND
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<b>S</b>	The grievance mechanism was disseminated to stakeholders and no grievances were received during FY21. The project has surpassed its gender target in terms of numbers. However, the ratio of women: men is below target and the project indicated that this will be addressed during FY22. The project also surpassed its target for stakeholder engagement.	NA
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**c. Recommendations**

CORRECTIVE ACTION(S)	RESPONSIBLE PARTY	DEADLINE
Identify and implement actions to increase the ratio of women: men participating and benefitting from the project.	PMU	June 30, 2022

## **SECTION V: PROJECT IMPLEMENTATION EXPERIENCES AND LESSONS LEARNED**

### **Required topics**

1. Knowledge activities/products (when applicable), as outlined in the knowledge management plan approved at CEO endorsement

The project is supporting the integration of the Sustainable Land Management (SLM) database from WOCAT within Trends.Earth and the LandPKS mobile application, as well as making available outputs from Trends.Earth and key SLM data from WOCAT through the LandPKS application. This will improve the usability and accessibility of data from all three tools, while allowing users to better integrate remote sensing and in-situ data sources. Overall, this broadens the user base of these tools' datasets, while also helping to contribute to better outcomes on the ground as better decisions are enabled through increased access to the best available information on land condition while ensuring usability of the outputs from this project.

While the original plan for the project called for an in-person workshop in Colombia to support the development of these tools and to build capacity in their use, these plans have been modified to take account of the COVID-19 pandemic. The project team is developing plans for a range of alternative means of country engagement in Colombia (ranging from a more limited in-person workshop to a completely online training), and is in communication with the CI country office in Colombia, and government stakeholders, to continue to evaluate the best approach that can safely address the interests of all stakeholders.

Despite the challenges of holding in-person engagements, the project team has been actively working with the UNCCD to improve the indicators for SDG Target 15.3 (LDN), and to integrate the three tools (Trends.Earth, WOCAT, and LandPKS). The Trends.Earth toolbox allows countries to calculate these indicators in a systematic way, drawing on the recommended methods and approaches of this project, and from the relevant UNCCD Good Practice Guidance documents (including updated guidance UNCCD released in early 2021, and for which this project provided feedback). As a free and open-source tool, Trends.Earth can be used and modified freely, and the open nature of LandPKS and WOCAT has facilitated the interoperability of these three tools. The project team continues to coordinate with UNCCD Secretariat, GEO-LDN and others in order to disseminate results from the project, and capacity-building workshops on UNCCD reporting that will begin late 2021 - early will increase usage of the outputs from this project by national-level decision makers on a global scale.

To facilitate the connection of the knowledge products, from this project with other ongoing efforts, the project team is actively participating in the activities of the Group on Earth Observations LDN Initiative, in particular Working Group 3 (WG3) on Data Analytics, for which CI is a co-chair. The GEO LDN Initiative has facilitated better connection of the project with related activities through GEO such as the Soil Biodiversity Observation Network (Soil BON), and FAO DRIP (Drylands Restoration Initiatives Platform), as well as in maintaining connections with other groups like the FAO SEPAL team. The project was also able to connect to the WG3 led work on land use planning - the Land Use Planning for LDN (LUP4LDN) project that WG3 supported is using outputs from Trends.Earth, and the Tools4LDN project team plans to similarly integrate within Trends.Earth outputs from LUP4LDN so that land use planners will be able to seamlessly use both tools.

Seeking to further broaden the impact of the work supported by this project, the CI team, through its engagement with the Global Commons Alliance, has supported the development of the Science Based Targets Network Land Hub, which seeks to support corporate-led efforts and the LDN. This includes informing the work of the Land Hub as to relevant indicators and approaches for assessing change in land condition (built on the approaches and datasets developed in this project). In a similar engagement with the Technical Assistance Facility for the LDN Fund, administered by the Sustainable Trade Initiative (IDH), CI has supported the development of a methodology to apply the LDN indicators as a project-level. The commitment of the project team to open-source development and permissive licensing of project outputs has facilitated both of these engagements.

### **Additional topics (please choose two)**

#### **2. Project institutional arrangements, including project governance**

From an institutional perspective, the project successfully implemented on time on a division of tasks and objectives among the different partner organizations (CI, University of California – Santa Barbara, University of Bern and University of Colorado), as well as among researchers within each of these organizations. This facilitated communication, planning and implementation of the overall project objectives. A centralized SharePoint site was created to store documents for working with project partners, the Steering Committee, the Scientific Advisory Board and pilot country stakeholders. This has allowed simultaneous editing for report reviews by project stakeholders. Significant effort was put into the design of the shared content in order to encourage transparency and collaboration throughout the project, in support of a unified view of project progress and to support clear differentiation of roles and responsibility. Initially, there was a small technical barrier to overcome to use Microsoft SharePoint with all partners, however the project team continues to use the platform as its functionality has improved since the start of the project.

The CI-GEF Project Agency has effectively communicated its expectations for the project team on reporting and expected outputs, and the lead institution (CI) has facilitated the project's quarterly Steering Committee meetings, which have helped to contribute to partner accountability. During these quarterly meetings the partners go through each activity in the Work Plan each quarter to report progress and identify emerging potential issues to be promptly addressed by the committee. In addition, the project maintains a Scientific Advisory Board of international experts on land degradation to review the technical outputs of the project. The comments of this committee have been instrumental in verifying the scientific integrity of the project's outputs.

Differentiation of scientific review by the (the Scientific Advisory Board) from decisions on project administration and strategy (by the Steering Committee) has been useful in allowing the project to access expertise for a variety of needs, and to link with other ongoing efforts from other institutions (such as Collect Earth from FAO, and the work of GEO LDN).

The project has had some challenges as planned travel was cancelled due to COVID-19, however, online meetings of the various governing bodies have continued in lieu of in person engagements.

#### **3. Factors that improve likelihood of long-term sustainability of project impacts**

To further the longer-term sustainability of the project's impacts, the project has pursued a number of strategies. The project has updated the Trends.Earth toolbox as a plugin for a freely available open-source software package, QGIS (v3+), that is commonly used in developing countries, and has released the source code to the tool freely and under an open-source license so that others can view and modify it. The code has already been integrated into tools from other institutions, such as FAO's SEPAL tool, demonstrating the value of this approach. The project partners have also worked closely with a team familiar with QGIS development and capacity-building to improve the user interface of the toolbox and integrate developments from the GEO-LDN Initiative.

To maximize impact while minimizing cost, the project has used a free data processing platform (Google Earth Engine) as the backend for the Trends.Earth tool. This allows the data processing functions of the tool to continue to be available even after the period of performance of this project. The development of an additional browser-based tool will increase usability and uptake of the tool in partnership with GEE and Group on Earth Observation (GEO). The training materials accompanying the toolbox will allow users to apply the methods and tools developed by the project even after

its completion. The project recommends similar approaches be taken for other data-intensive projects to avoid challenges in maintaining data processing functionality beyond the end date of a project.

To ensure sustainability of the project’s impacts on land degradation monitoring more broadly, the project has linked with existing organizations and platforms such as UNCCD, GEO-LDN, CSIRO, FAO, JRC, IDH and the LDN Fund to ensure that project’s tools and findings are broadly known, promoted, and utilized in multiple venues. The project has also made a concerted effort to ensure that the toolbox and recommendations on monitoring are able to support achieving the UNCCD’s strategic objectives, and to be responsive to the needs of countries reporting to the UNCCD. Throughout the project, close coordination with the UNCCD Secretariat has ensured that all recommendations and updates to the guidance documents developed by UNCCD and their partners are taken into account in the design of the tools developed by this project. This alignment ensures these tools will remain relevant and useful for countries in the UNCCD reporting and land use planning more broadly.

### **APPENDIX I: PROJECT ANNUAL IMPLEMENTATION PROGRESS RATING**

Rating		Overdue (O)	Delayed (D)	Not started on schedule (NS)	Under implementation on schedule (IS)	Completed/Achieved (CA)
Highly Satisfactory (HS)	HS	0%			100%	
Satisfactory (S)	S	20%			80%	
Moderately Satisfactory (MS)	MS	40%			60%	
Moderately Unsatisfactory (MU)	MU	60%			40%	
Unsatisfactory (U)	U	80%			20%	
Highly Unsatisfactory (HU)	HU	100%			0%	

- **Highly Satisfactory:** 100% of the indicators: a) have been completed/achieved, b) are under implementation on schedule, and/or c) have not started but are on schedule, according to the original/formally revised Project Annual Workplan for the project. The project can be presented as an example of “good practice” project,
- **Satisfactory:** 80% of the indicators: a) have been completed/achieved, b) are under implementation on schedule, and/or c) have not started but are on schedule, according to the original/formally revised Project Annual Workplan for the project; except for only 20% that are delayed and/or overdue and need remedial action,
- **Moderately Satisfactory:** 60% of the indicators: a) have been completed/achieved, b) are under implementation on schedule, and/or c) have not started but are on schedule, according to the original/formally revised Project Annual Workplan for the project; while 40% are delayed and/or overdue and need remedial action,

- **Moderately Unsatisfactory:** 40% of the indicators: a) have been completed/achieved, b) are under implementation on schedule, and/or c) have not started but are on schedule, according to the original/formally revised Project Annual Workplan for the project; while 60% are delayed and/or overdue and need remedial action,
- **Unsatisfactory:** only 20% of the indicators: a) have been completed/achieved, b) are under implementation on schedule, and/or c) have not started but are on schedule, according to the original/formally revised Project Annual Workplan for the project; while 80% are delayed and/or overdue and need remedial action, and
- **Highly Unsatisfactory:** 100% of the indicators: a) are overdue, and/or b) delayed in their implementation, according to the original/formally revised Project Annual Workplan for the project.



## APPENDIX II: PROGRESS TOWARDS ACHIEVING PROJECT EXPECTED OUTPUTS

INDICATORS	PROJECT TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>14</sup>	COMMENTS/JUSTIFICATION
<b>Outcome 1.1</b>				
<b>Indicator 1.1:</b> # of high spatial resolution datasets added to Trends.Earth and readily available for users	3 data sources, 1 module, 4 guidelines	2 data sources, 0 modules, 0 guidelines	O	<p>The addition of datasets, methods, and indices are still underway following the completion of reports 1, 2 and 3. There have been slight delays from datasets provided by external partners and the cloud processing for high resolution data continues to be processed.</p> <p>To be completed in Q1 FY22 per revised timeline approved by CI-GEF in June 2021.</p>
<b>Indicator 1.1.1.:</b> # of global satellite data sources at high spatial resolution for assessing changes in primary productivity available through Trends.Earth	1 dataset added to Trends.Earth	2 datasets	O	<p>The report identifying the additional datasets is complete and publicly available on the website in English and Spanish, and the datasets are processing for Global NDVI Sentinel-2 dataset starting in 2018. Land productivity for Colombia is complete for 2016-2020 at 10m resolution. Datasets for productivity are available until 2020. EVI2 derived from Sentinel-2 productivity is processing and will be added upon completion.</p> <p>To be completed in Q1 FY22 per revised timeline approved by CI-GEF in June 2021.</p>

<sup>14</sup> O= Overdue; D= Delayed; NS= Not started on schedule; IS= Under implementation on schedule; and CA= Completed/Achieved

INDICATORS	PROJECT TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>14</sup>	COMMENTS/JUSTIFICATION
<b>Indicator 1.1.2.:</b> # of global land cover products at high spatial resolution available through Trends.Earth	1 dataset added to Trends.Earth	0 datasets	O	The land cover dataset from Copernicus only extended through 2015 and another global land cover dataset at 10m from Vito Remote Sensing was identified. These will be implemented into Trends.Earth by Q1 FY22 due to processing time from outside partners.  To be completed in Q1 FY22 per revised timeline approved by CI-GEF in June 2021.
<b>Indicator 1.1.3.:</b> # of soil organic Carbon degradation indicators at high spatial resolution available through Trends.Earth	1 dataset added to Trends.Earth	0 datasets	O	The functionality to process the soil organic carbon indicators is complete in Trends.Earth, but this output is reliant on the land cover datasets which have been extended to Q1 FY22.  To be completed in Q1 FY22 per revised timeline approved by CI-GEF in June 2021.
<b>Indicator 1.1.4.:</b> # of guidelines available online for each subindicator and high spatial resolution SDG	0 guidelines	0 guidelines	NS	The guidelines have not been started and are waiting until the datasets from outputs 1.1.1, 1.1.2, and 1.1.3 are complete.  To be completed in Q1 FY22 per revised timeline approved by CI-GEF in June 2021.
<b>Outcome 2.1</b>				
<b>Indicator 2.1.:</b> # of reports on the interactions between land degradation, drought and socioeconomic factors completed readily available for key stakeholders	3 reports	2 reports	CA	The technical reports for this outcome are complete and available on the project website. Note that one report from the project target fell under Outcome 1.1.

INDICATORS	PROJECT TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>14</sup>	COMMENTS/JUSTIFICATION
<b>Indicator 2.1.1.:</b> # of reports evaluating approaches for assessing socio economic vulnerability to drought and land degradation	3 reports	2 reports	CA	The two reports supporting SO2 and SO3 are complete and available on the project website. These outline the datasets and methodology that will be added into Trends.Earth. Note that one report from the project target fell under Outcome 1.1.
<b>Indicator 2.1.2.:</b> # of datasets on drought and early warning added and available through Trends.Earth	3 datasets	1 dataset	IS	The addition of the Drought Hazard Indicator (30 km2) data into Trends.Earth is complete. CHIRPS precipitation data, though limited in geographic extent (50N-50S) will be added as another option for those countries within its area of coverage.
<b>Indicator 2.1.3.:</b> # of datasets on socioeconomic information added and available through Trends.Earth	3 datasets	2 datasets	IS	Population count data from WorldPop and GPWv4 are available in Trends.Earth. This data will be supplemented with gender-disaggregated indicators as recommended in the SO3 report. Additional datasets are being evaluated for inclusion.
<b>Indicator 2.1.4.:</b> # of case studies performed and made available publicly	1 case study	0 case studies	NS	To be completed in Q2 FY22 per revised timeline approved by CI-GEF in June 2021.
<b>Indicator 2.1.5:</b> # of documents and step by step guidelines for using climate and socioeconomic variables in support of SO 2 and 4 produced and available through the project website	1 document	0 documents	NS	To be completed in Q3 FY22 according to the revised work plan following the completion of Indicators 2.1.1, 2.1.2, 2.1.3, 2.1.4.
<b>Outcome 3.1:</b>				

INDICATORS	PROJECT TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>14</sup>	COMMENTS/JUSTIFICATION
<p><b>Indicator 3.1.:</b> # of approaches to support monitoring of LDN target progress integrating field and remote sensing data completed and available through project website</p>	<p>2 mobile platforms, 1 integrated workflow, 1 document</p>	<p>1 mobile platforms, 0 integrated workflow, 0 document, # integrated workflow</p>	<p>D</p>	<p>These activities are ongoing following delays due to cancellation of in person planning workshops. Progress has been made on all activities of this outcome with expected completion in FY22. To be completed in Q3 FY22 per revised timeline approved by CI-GEF in June 2021.</p>
<p><b>Indicator 3.1.1.:</b> # of mobile applications with capabilities for working in an integrated manner with Trends.Earth</p>	<p>1 mobile platform</p>	<p>1 mobile platforms</p>	<p>O</p>	<p>The visioning exercise was completed in February 2020 on the integration of LandPKS, WOCAT and Trends.Earth. The back-end integration between LandPKS and Trends.Earth is complete for retrieving simplified land degradation assessments in mobile interface and the interface for retrieving field-based and locally specific information land management in Trends.Earth will be completed in Q1 FY22.</p>
<p><b>Indicator 3.1.2.:</b> # of mobile applications with capabilities for collecting and distributing data on sustainable land management</p>	<p>1 mobile platform</p>	<p>0 mobile platforms</p>	<p>IS</p>	<p>The integration design is complete identifying ~100 technologies by WOCAT SLM experts. The LandPKS team is currently in the process of integrating these into the mobile platform. This will be complete by Q1 FY22 with revisions to the design made as needed in Q1 FY23 following users' feedback during capacity building workshops. To be completed in Q1 FY22 per revised timeline approved by CI-GEF in June 2021.</p>

INDICATORS	PROJECT TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>14</sup>	COMMENTS/JUSTIFICATION
<b>Indicator 3.1.3.:</b> # of integrated workflows for assessing change in land condition combining remotely sensed indicators with field data completed	1 integrated workflow	0 integrated workflows	NS	The development of the integrated workflows will be completed in FY22 according to the revised work plan. The project partners have engaged consistently with external tools to evaluate integration including FAO's Collect Earth and SEPAL, and the GEO LDN Initiative. SEPAL will generate SDG 15.3.1 indicators at finer resolution, and Trends.Earth users can use SEPAL to generate land cover datasets. To be completed in Q2 FY22 per revised timeline approved by CI-GEF in June 2021.
<b>Indicator 3.1.4.:</b> # of step-by-step guidelines for performing integrated assessment of land condition using remotely sensed data, mobile applications and databases on sustainable land management completed and available through the project website	1 document	0 documents	NS	To be completed in FY22 according to the revised work plan and is dependent on completion of Indicators 3.1.1, 3.1.2 and 3.1.3. To be completed in Q3 FY22 per revised timeline approved by CI-GEF in June 2021.
<b>Outcome 3.2:</b>				
<b>Indicator 3.2.:</b> # of modules added to Trends.Earth to support decision making for LDN planning	1 module	0 modules	D	To be completed in Q3 FY22 according to the revised work plan. This was postponed reflecting completion of activities from Outcome 3.1 and selection of the GEO Land Use Planning tool competition, who will work closely with the Trends.Earth team.

INDICATORS	PROJECT TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>14</sup>	COMMENTS/JUSTIFICATION
<b>Indicator 3.2.1.:</b> Version # of QGIS currently supported by Trends.Earth	QGIS v3	QGIS v3	CA	Update to QGIS v3 completed, loaded to the GitHub repository and to the QGIS plugin repository for public access to Trends.Earth.
<b>Indicator 3.2.2.:</b> # of datasets supported by the multi criteria evaluation tool developed for Trends.Earth in support of LDN planning	1 dataset	0 datasets	0	This framework will be developed based on the data identified in the first 3 reports. Drought, climate and socio-economic data are important for inclusion in this framework. The team held an initial meeting in January to discuss and agreed to conduct broader outreach when the datasets have been identified and the tool integration has been developed, as well as to link to the winner of the GEO LDN Land Use Planning tool competition (which was announced in March 2021). Evaluation of tool functionality is currently underway and will be completed once datasets from components 2 and 3 are identified and added into Trends.Earth in Q1 FY22. To be completed in Q4 FY22 per revised timeline approved by CI-GEF in June 2021.
<b>Indicator 3.2.3.:</b> # of step-by-step guidelines for performing multi criteria analysis in support of LDN completed and available through project website	1 document	0 documents	0	To be completed in Q1 FY23 according to the revised work plan pending completion of indicators 3.2.1 and 3.2.2.
<b>Outcome 3.3:</b>				
<b>Indicator 3.3.:</b> # of tests completed in pilot country	1 test in pilot country	0 tests	0	To be completed by the end of FY22 according to the revised

INDICATORS	PROJECT TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>14</sup>	COMMENTS/JUSTIFICATION
				work plan, delayed due to COVID.
<b>Indicator 3.3.1.:</b> # degradation assessment within the pilot country using improved biophysical indicators completed and shared with local stakeholders	1 degradation assessment	0 degradation assessments	0	Completed analysis of high-resolution productivity datasets in Q4 FY21, using outputs from Component 1. Land cover and soil carbon will be completed following completion of related activities in Component 1.  To be completed in Q1 FY22 per revised timeline approved by CI-GEF in June 2021.
<b>Indicator 3.3.2.:</b> # of tests of mobile application, WOCAT database and Trends.Earth indicators completed within the pilot country	1 test	0 tests, 0 reports	0	To be completed in Q2 FY22 according to the revised work plan. The project teams will identify target regions for testing, determine test areas with stakeholders before designing/implementing the field work campaign, and drafting the summary report.
<b>Indicator 3.3.3.:</b> # of LDN prioritization analysis using decision support tool and participatory process with local stakeholders completed in the pilot country	1 analysis	0 analyses	0	To be completed in Q3 FY22 according to the revised work plan.
<b>Indicator 3.3.4.:</b> # of stakeholders, disaggregated by gender, trained	30 stakeholders (15 women, 15 men)	0 stakeholders trained	0	To be completed in Q3 FY22 according to the revised work plan and pending further discussion with stakeholders (which potential to expand beyond pilot country in a virtual setting).
<b>Outcome 4:</b>				

INDICATORS	PROJECT TARGET	END OF YEAR INDICATOR STATUS	PROGRESS RATING <sup>14</sup>	COMMENTS/JUSTIFICATION
<p><b>Indicator 4.1.:</b> # of online training modules produced and made available through project website</p>	<p>No target set.</p>	<p>0 online training modules</p>	<p>O</p>	<p>The major capacity-building activities for the project are planned in FY22. In part due to the delays in UNCCD reporting due to COVID-19. The project team will conduct surveys during training activities linked to that process to assess gender disaggregated statistics related to the project. This Outcome has been postponed to FY22.</p>
<p><b>Indicator 4.1.1.:</b> # of gender appropriate online modules completed and available through project website</p>	<p>1 online module</p>	<p>0 online modules</p>	<p>NS</p>	<p>These training materials will be completed in FY22 following the completion of the development of the integrated platform, and finalization of data and reporting formats together with UNCCD Secretariat.</p>
<p><b>Indicator 4.1.2.:</b> # of users, disaggregated by gender, as members of the community of users' platform</p>	<p>50 active users (25 women, 25 men)</p>	<p>291 active users</p>	<p>IS</p>	<p>There are currently 291 users in Trends.Earth user forum, however users are not required to disclose detailed information when joining this group that would allow collection of sex disaggregated information, but a survey is planned to collect this information from current users.</p>
<p><b>Indicator 4.1.3.:</b> # of participants, disaggregated by gender, attending the workshop on tools to support reporting data needs.</p>	<p>50 participants (25 women, 25 men)</p>	<p>0 participants</p>	<p>D</p>	<p>These workshops were postponed due to COVID and will be held in Q2/Q3 FY22 in close partnership with the UNCCD so as to leverage activities planned as part of the upcoming UNCCD reporting cycle.</p>