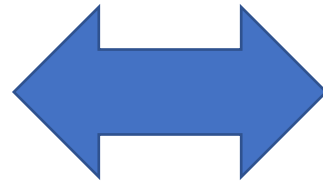


A collaboration to support countries in improving their national GHGs Inventories



Food and Agriculture Organization of the United Nations



Collect Earth



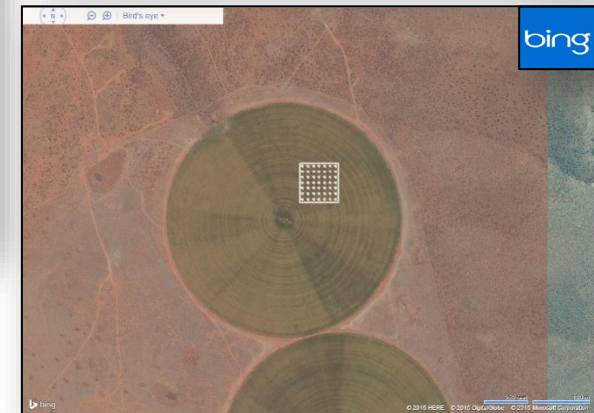
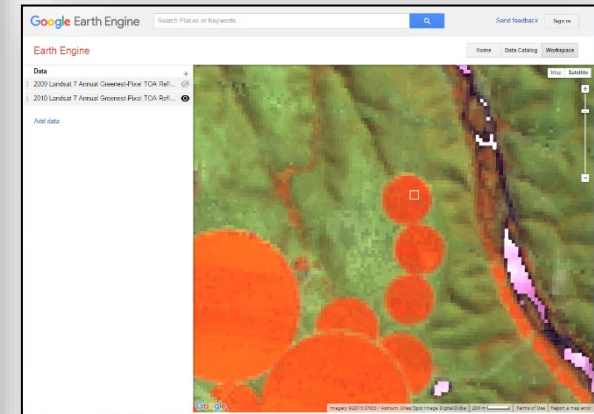
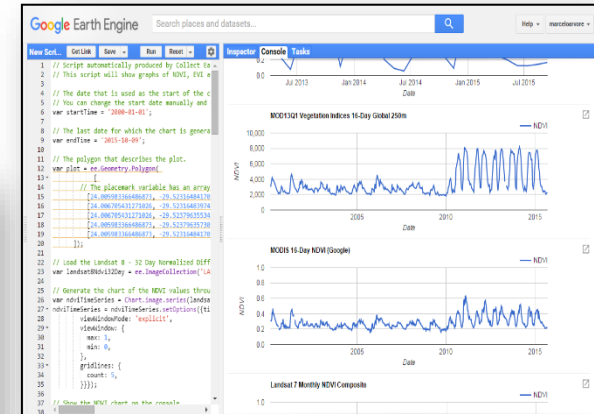
SEPAL

Collect Earth

an open source tool for augmented visual interpretation



Food and Agriculture Organization of the United Nations



Collect Earth - Drylands Monitoring

File Tools Help

Operator

Open Foris Collect Earth server should be running while the operator interprets data.
Please maintain this window open while you are using Google Earth.

<https://openforis.org/tools/collect-earth/>

<http://www.mdpi.com/2072-4292/8/10/807>

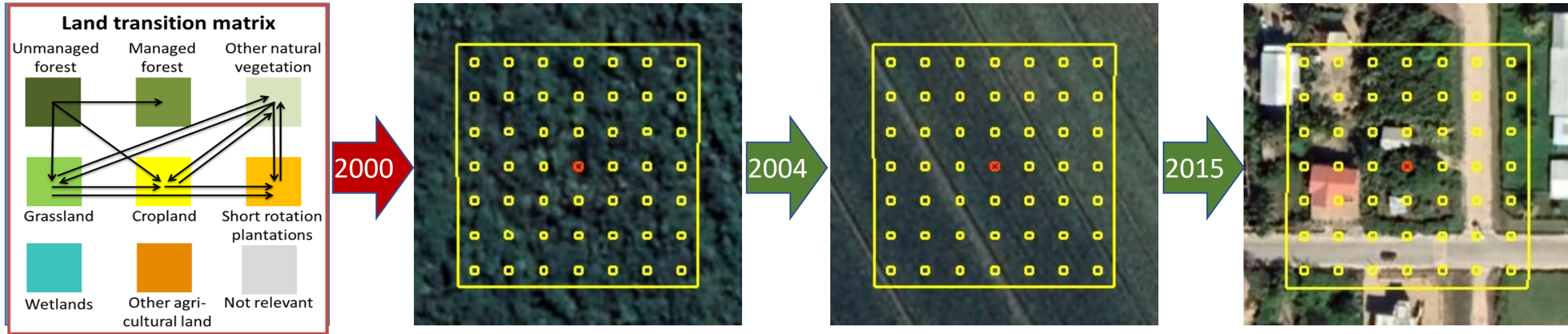
Consistent Representation of Lands

<2000
Land use

2000/2004
FOREST

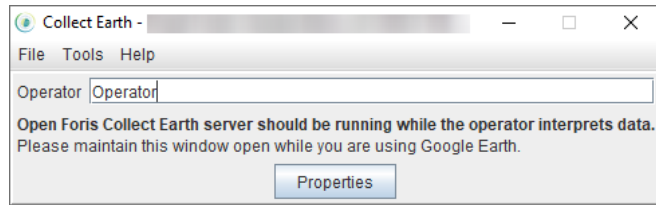
2004/2015
CROPLAND

PRESENT
SETTLEMENT

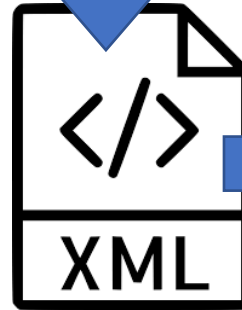


Collect Earth provides data to measure Land Use and Land Use Changes from 2000.
Collect Earth enables users to represent Land Use before 2000 through models regressions

Collect Earth & IPCC Inventory software



CE Export the LU timeseries of the data in the DB to an XML or CSV file (to be specified)



IPCC Inventory Software imports the file building the land representation sheet

| Categories | Emissions (Gg) | | | Emissions CO2 Equivalents (Gg) | | | | hal gas CO2 eq |
|--|----------------|-------|-------|--------------------------------|-------|-------|--|----------------|
| | Net CO2 (1)(2) | CH4 | N2O | HFCs | PFCs | SF6 | Other halogenated gases with CO2 equivalent conversion factors (3) | |
| Total National Emissions and Removals | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1- Energy | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1.A- Fuel Combustion Activities | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

Number of decimal places: 3 Zero padding Export to Excel

Legend

- (1) CO2 net emissions (emissions minus removals)
- (2) Total amount of CO2 captured for long-term storage is to be reported separately for domestic storage and for export in the documentation box.
- (3) The other halogenated gases for which the CO2 equivalent conversion factor is not available should not be included in this column. Such gases should be reported in the column 'Other halogenated gases without CO2 equivalent conversion factors'.
- (4) When this column is used, gases should be listed separately in IPU Background Tables and Table 2.11 and the name of the gas should be given in the documentation box.
- (5) Emissions that are not included in the national total should be reported as memo items.

* Cells to report emissions of NOx, CO, NMVOC and SO2 have not been shaded although the

Country/Territory: Belize | Inventory Year: 2000 | Base year for assessment of uncertainty in trend: 1990 | CO2 Equivalents: SAR GWPs (100 year time horizon) | Database file:

The Collect Earth module (adds-on) to export activity data directly in the new IPCC software **will be available early 2023**

IPCC Software Wall-to-Wall Land Representation Add-on



Goal

to support wall-to-wall data collection for land representation and facilitate upload to the IPCC Software



Timeline

Tentative launch: June 2023

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United Nations



SEPAL

IPCC Software Wall-to-Wall Land Representation Add-on

1. GOAL: Update IPCC Inventory Software

Add-on to IPCC software in order to allow countries to have the capacity to prepare a land representation:

- by tracking units of land spatially and temporally (Approach 3)
- or by reporting areas with identified changes in the land stratification for the entire transition period (20 years, IPCC default).

More specific:

1. infer data on land cover/land use through multi-spectral and multi-temporal analysis of remotely sensed image;
2. analyze data collected by producing a time series of annual matrices, for which data are available, of land use and land-use change (approach 2) or a dataset of units of land (approach 3);
3. assess and correct for bias and provides standard error for each area data;



IPCC Software Wall-to-Wall Land Representation Add-on

4. Gap-fill the time series of annual matrices or datasets of units of land to ensure a complete land representation.

2. STATUS

Collaboration with Boston University, coding part finished with the **Continuous Change Detection and Classification (CCDC)** algorithm (Zhu and Woodcock, 2014) to evaluate changes in pixel values over time for a stack of images.

Workflow in SEPAL is ready, using IPCC LCLU categories will be used to monitor changes

3. EXPECTED TIMELINE

Release expected June 2023



Thank you!

Browse the Open Foris suite of tools

<http://openforis.org/>