



Food and Agriculture  
Organization of the  
United Nations

# Delivering results under AIM4Forests: SEPAL online facilitated course

Rocío Córdor, Forestry Officer (FAO) on behalf of the course team  
GFOI Plenary, 9-11 May 2023, Rome and online



With the financial support of



# Forest and Land Monitoring for Climate Action - SEPAL

---



## Goal

To support knowledge and skills development to operationally apply high-resolution satellite imagery to critical forest and land monitoring in tropical forest countries. More specifically, the course focuses on how the [SEPAL](#) platform can support forest and land monitoring.



## Timeline

24 March – 7 May 2023



## Languages

English, Spanish and French

More information: [Methodological note](#), [flyer](#)

# Forest and Land Monitoring for Climate Action - SEPAL



## Content

**Module 1** – Institutionalization of forest data

**Module 2** – Introducing SEPAL for forest and land monitoring

**Module 3** – High-integrity Measurement, Reporting and Verification

**Module 4** – Monitoring of forest and ecosystem restoration

**Module 5** – Peatland mapping and monitoring



## Learning paths

- **Learning path 1:** Complete Module 1 and Module 2
- **Learning path 2:** Complete Module 1, Module 2, and one additional module of your choice between Module 3, Module 4 or Module 5
- **Learning path 3:** Complete all 5 modules



## Target audience

- Staff in governmental and implementing agencies
- Remote-sensing experts
- Academia
- Civil society
- Private sector
- Women
- Youth

## Certification

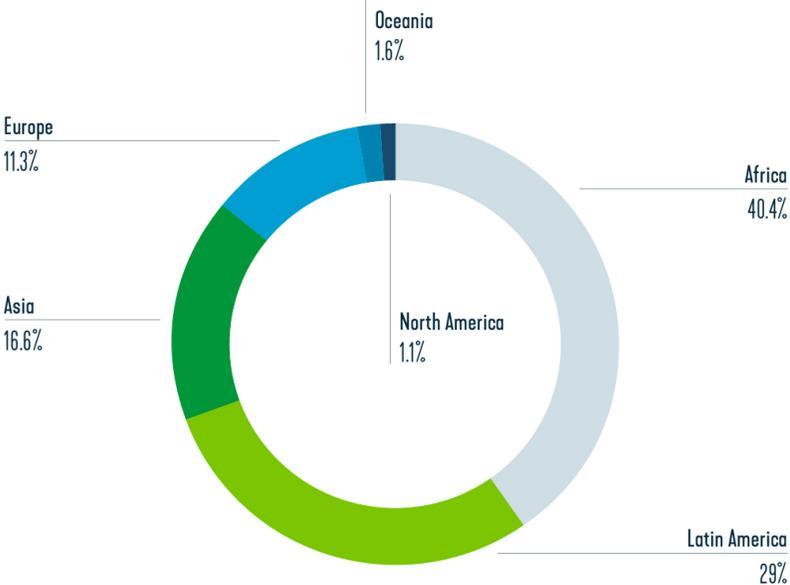


**DIGITAL BADGE**  
(Learning path 3)

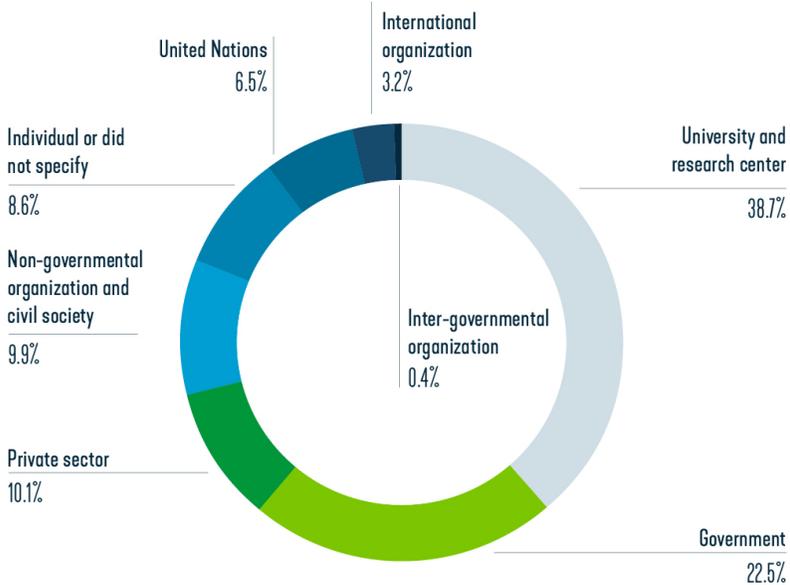


**CERTIFICATE OF COMPLETION**  
(Learning path 1 and 2)

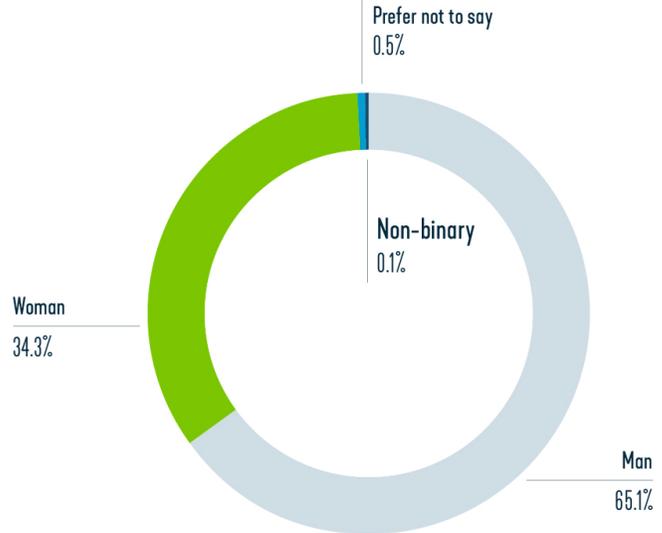
# A truly global initiative



2372 participants from more than 150 countries

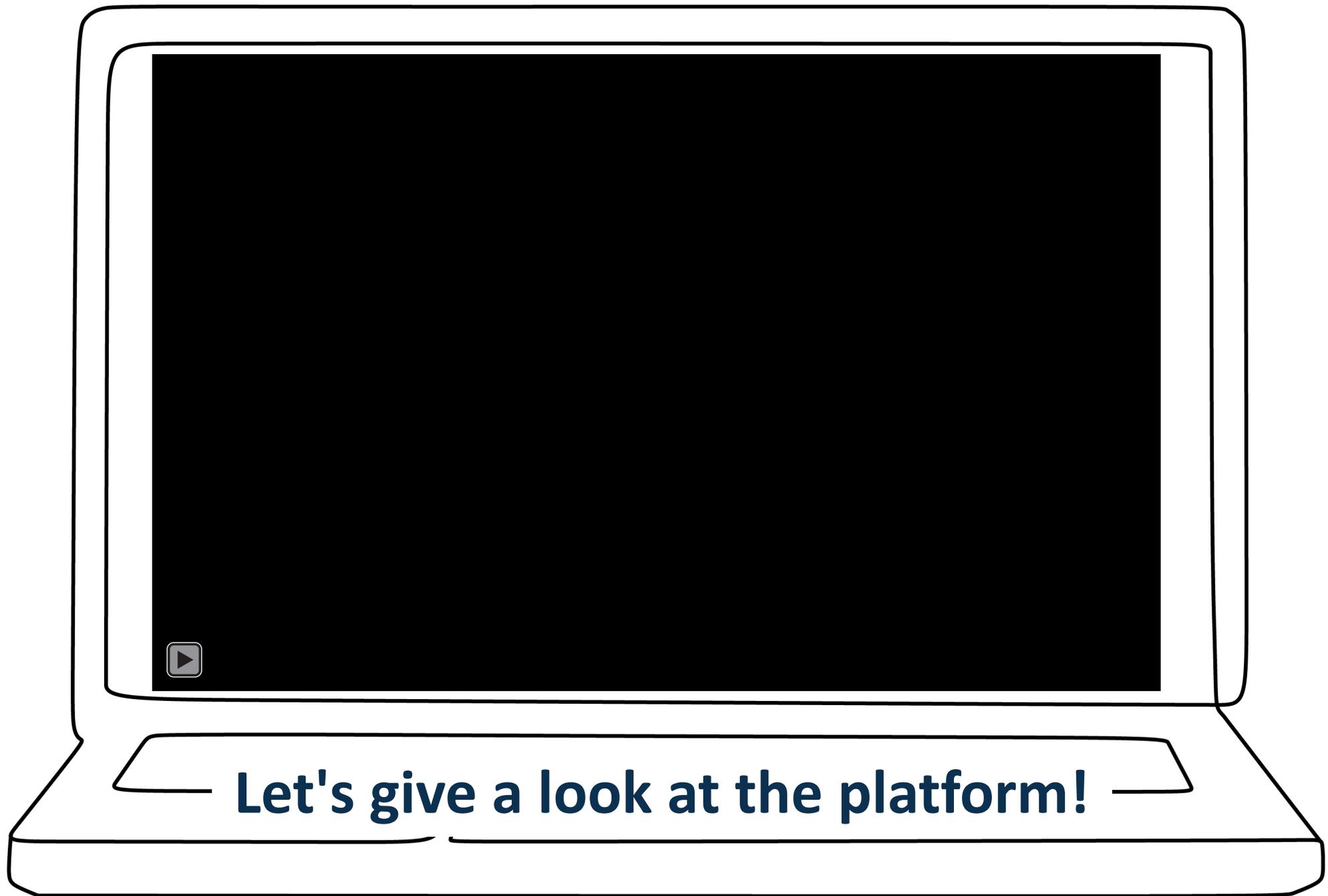


Engaging all stakeholders



Towards balanced participation of women and men

**57%**  
The percentage of active participants as of today (that logged on the platform at least once)



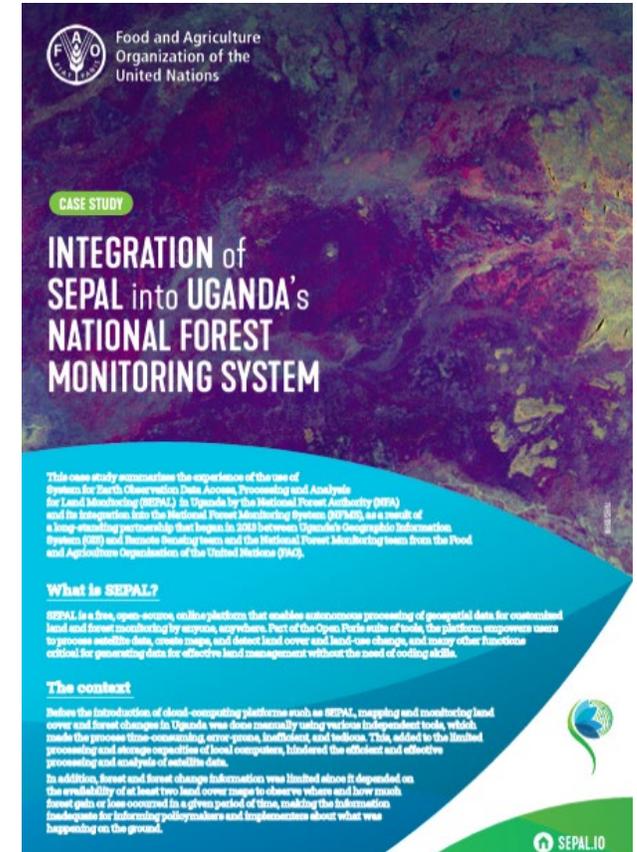
**Let's give a look at the platform!**

# Participant testimony

Brenda Anicia  
Remote Sensing Officer  
National Forest Authority (NFA), Uganda



- *How did you find the course and how is it relevant to your work?*
- *How do you think you will apply what you learned in your professional area?*



<https://www.fao.org/documents/card/en/c/cc4828en>

# The course team

Overall course coordination: Rocío Dánica Córdor Golec

E-learning content development, instructional design and storyboard development: Annalisa De Vitis

Learning management system coordinator and storyboard review: Sara Ferrante

Outreach and knowledge management coordinator: Vanessa Vertiz Larrea

Outreach support: Maria Pilar Valbuena Perez

SEPAL Chief Technical Adviser: Erik Lindquist

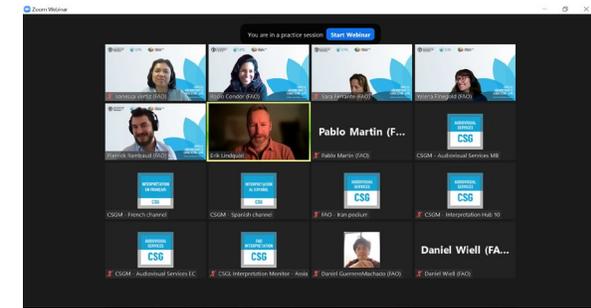
National Forest Monitoring team leadership: Julian Fox

All national forest monitoring (NFM) team and FAO e-learning Academy colleagues who contributed to the course.

Join the conversation: [#LearningSEPAL](https://twitter.com/LearningSEPAL)

[@OpenForis](https://twitter.com/OpenForis)

Contact us: [SEPAL@fao.org](mailto:SEPAL@fao.org)



# Thank you!

Course: Forest and land monitor... | Cours : Surveillance des forêts et... | Curso: Monitoreo de bosques y...

https://collaborative-learning.fao.org/course/view.php?id=278

SEPAL\_2023\_en

Participants

Badges

INTRODUCTION

MODULE 1 - INSTITUTIONALIZATION OF FOREST DATA

MODULE 2 - INTRODUCING SEPAL FOR FOREST AND LAND MONITORING

MODULE 3 - HIGH INTEGRITY MEASUREMENT, REPORTING AND VERIFICATION

MODULE 4 - MONITORING OF FOREST AND ECOSYSTEM RESTORATION

MODULE 5 - PEATLAND MAPPING AND MONITORING

COURSE SURVEY AND CERTIFICATION

Dashboard

Calendar

My courses

SEPAL\_2023\_fr

SEPAL\_2023\_es

SEPAL\_2023\_en

Food and Agriculture Organization of the United Nations

7 failed logins since your last login

Sara TEST

## Forest and land monitoring for climate action – SEPAL

Dashboard / My courses / Courses / SEPAL\_2023\_en

Welcome to this open online facilitated course "Forest and land monitoring for climate action – SEPAL"

Delivered from 24 March to 7 May 2023, the course aims to support knowledge and skills development to operationally apply high-resolution satellite imagery to critical forest and land monitoring in tropical forest countries. More specifically, the course focuses on how the System for Earth Observation Data Access, Processing and Analysis for Land Monitoring (SEPAL) platform can support land and forest monitoring for climate action.

This course is designed by the Food and Agriculture Organization of the United Nations (FAO) and is funded by Norway's International Climate and Forests Initiative (NICFI), and the United Kingdom's Department for Energy Security and Net Zero.

### INTRODUCTION

Label: 1 Files: 7 Forum: 1 Progress: 1 / 3

**DATA PROTECTION AND PRIVACY POLICY**

#### UPCOMING EVENTS

Course closure  
Sunday, 7 May, 11:59 PM

Go to calendar...

#### LATEST ANNOUNCEMENTS

14 Apr, 19:22  
Sara Ferrante  
Link to the recordings of all live sessions

12 Apr, 15:29  
Sara Ferrante  
Download of the certificate

7 Apr, 18:56  
Sara Ferrante  
Recording of live session of 6 April 2023  
Older topics ...

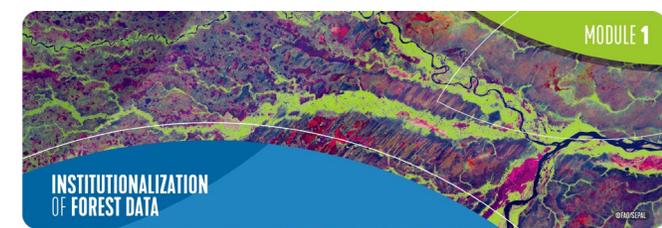
#### CALENDAR

May 2023

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Hide site events

# The course landing page



## Left-hand menu

Badges

Grades

INTRODUCTION

MODULE 1 –  
INSTITUTIONALIZATION  
OF FOREST DATA

**MODULE 2 –  
INTRODUCING SEPAL  
FOR FOREST AND  
LAND MONITORING**

MODULE 3 – HIGH  
INTEGRITY  
MEASUREMENT,  
REPORTING AND  
VERIFICATION

MODULE 4 –  
MONITORING OF  
FOREST AND  
ECOSYSTEM  
RESTORATION

MODULE 5 –  
PEATLAND MAPPING  
AND MONITORING

COURSE SURVEY AND  
CERTIFICATION

Dashboard

Calendar

# The module page

## Right-hand menu



SEPAL PLATFORM DIRECT ACCESS



METHODOLOGICAL NOTE  
Revised and updated on  
14/03/2023



GLOSSARY and RESOURCES



ACRONYMS



SEPAL WIKI



THE COURSE TEAM



SUPPORT

### Overview

FAO has supported several countries in their development of National forest monitoring systems (NFMS), namely through the production of guidelines and resources, such as **Open Foris**, a set of free and open-source tools that facilitates flexible and efficient data collection, analysis and reporting.

Part of **Open Foris**, **System for Earth Observation Data Access, Processing and Analysis for Land Monitoring**, **SEPAL**, is a free, open-source, online platform that enables autonomous processing of geospatial data for customized forest and land monitoring by anyone, anywhere.

This module introduces the SEPAL platform as a tool for an overview of SEPAL's main functionalities and explains how to use it in a time-series.

### Learning objectives



By the end of Module 2, you will be able to:

- understand how SEPAL can support forest monitoring
- identify SEPAL's basic functionalities including data collection and processing
- describe SEPAL's functionalities for optimal data collection and processing

### Support

If you need any clarification on the topics covered in this module, this forum will be available ONLY during the timeframe of the module.

### Learning activities

Please complete all activities in the order provided. Complete the activities in the order provided. Complete the activities in the order provided.

You are encouraged to participate in both types of activities.



Video: "SEPAL – A powerful open-source platform for forest monitoring"



Handout: "Introduction to SEPAL"



Lessons:  
• Introduction to SEPAL



Lessons:

- Introduction to SEPAL
- Setting up SEPAL. You can also watch the tutorial "How to change SEPAL locale"



Discussion forum



Lessons:

- Mosaics and composites with SEPAL
- C-band radar data on SEPAL. Sentinel-1 mosaics. You can also watch the tutorial "How to create Sentinel-1 mosaics"
- Classification with SEPAL
- Time series analysis with SEPAL. Change detection with Landsat/Sentinel



Self-assessment quiz

This is not a compulsory test, but a set of questions that will help you reflect on what you have learned and your progress.



Online live session: "Creating mosaics with SEPAL, image classification, change detection, and time series"  
Q&A document (all languages)

Presentation

If you had not the chance to participate, this below is the recording of the live session that was delivered on 14/03/2023.



### Module graded test

Now that you have completed these activities, you may take the graded test. Please remember that the minimum score to pass is 75% of right answers (attempts are unlimited).

Press the button below to access the test:



MODULE #2  
TEST