



Food and Agriculture Organization  
of the United Nations

## E-learning curriculum: Forest monitoring for Climate Action



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## Objective:

Developing countries have enhanced capacity, knowledge and awareness on forest-related data collection, analysis and dissemination to meet the enhanced transparency framework (ETF) requirements of the Paris Agreement.

*The main components include:*



**Boosting institutional capacity**



**Increasing technical capacity**



**Sharing knowledge**

## Target Groups

The project directly benefited at least **20 targeted countries** and more broadly some **236 countries and territories** that are part of the global network of National Correspondents for the **Global Forest Resources Assessment (FRA)**.



236 countries and territories



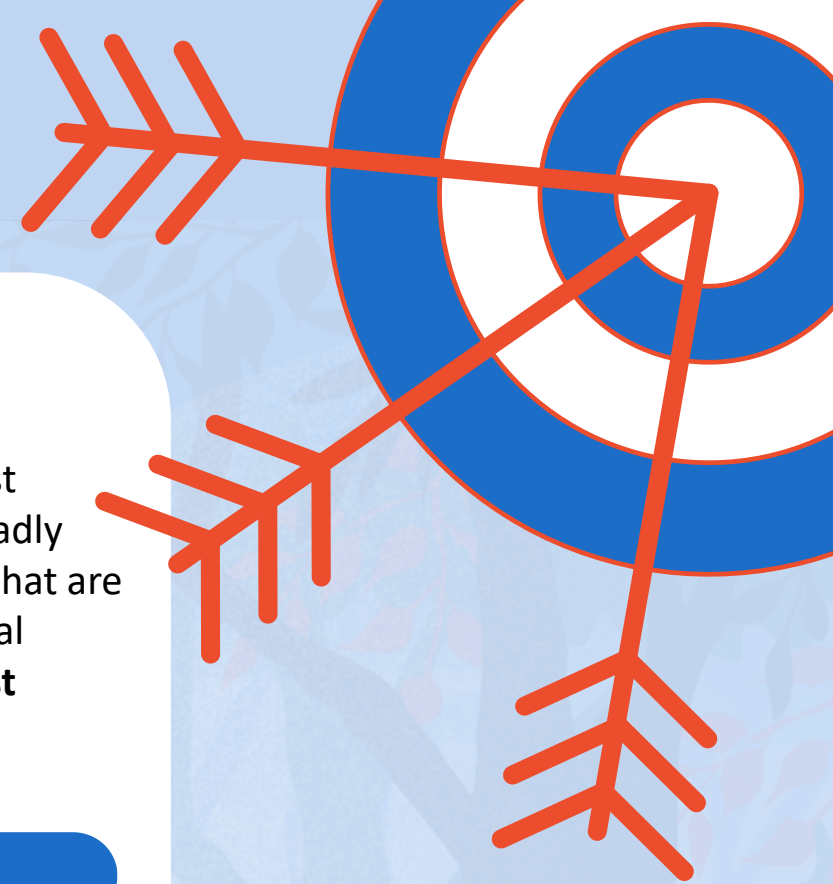
Global scope



3 years (2024-2026)



GEF (USD 2.0 million); FAO (USD 5.2 million)



# E-learning curriculum: Forest monitoring for Climate Action

MOOC: massive open online course

**Jul. 2020:** self-paced



[Forests and transparency under the Paris Agreement](#)

**Jun. 2023:** MOOC self-paced



[Sharing the experience on "Forest and land monitoring for climate action – SEPAL" facilitated course](#)

**Jul. 2023:** self-paced



[Institutionalization of forest data](#)

**Dec. 2024:** self-paced



[Measurement, report and verification for environmental integrity](#)

**Mar. 2026**



[Uncertainty in estimating forest emissions: Introduction to Monte Carlo](#)

**Nov. 2021:** MOOC self-paced



[Sharing the "Forests and Transparency under the Paris Agreement" MOOC multilingual experience](#)

**Oct. 2023:** self-paced



[National forest inventory e-learning series](#)

**Mar. 2025:** self-paced



[National forest inventory Learning journey](#)

**Oct. 2025:** self-paced



[Institutionalization of forest data - Learning journey](#)

With the financial support:



# E-learning curriculum: Forest monitoring for climate action

Build institutional and technical capacities to meet **Measurement, Reporting and Verification (MRV)** requirements and the **Enhanced Transparency Framework (ETF)** under the Paris Agreement.

## Learning options

- **Individual course:** Earn a **digital badge**.
- **Complete learning path:** Earn a **Master Badge** by completing all required courses.

**LEARNING PATH**

**Establishing a national forest monitoring system**  
**Total learning time: 3 hours**  
Learn how to build a robust and sustainable national forest monitoring system (NFMS) to ensure transparent reporting under the Paris Agreement.

To earn the master badge, you need to complete courses 1 and 2:

**COURSE 1**  
**Forests and transparency under the Paris Agreement**  
Learn how to produce reliable and transparent forest data to meet the transparency requirements under the Paris Agreement.  
1h 30m

**COURSE 2**  
**Institutionalization of forest data**  
Learn how to institutionalize an NFMS and the critical role of transparency, sustainability and data sharing.  
1h 30m

## Master Badges available:

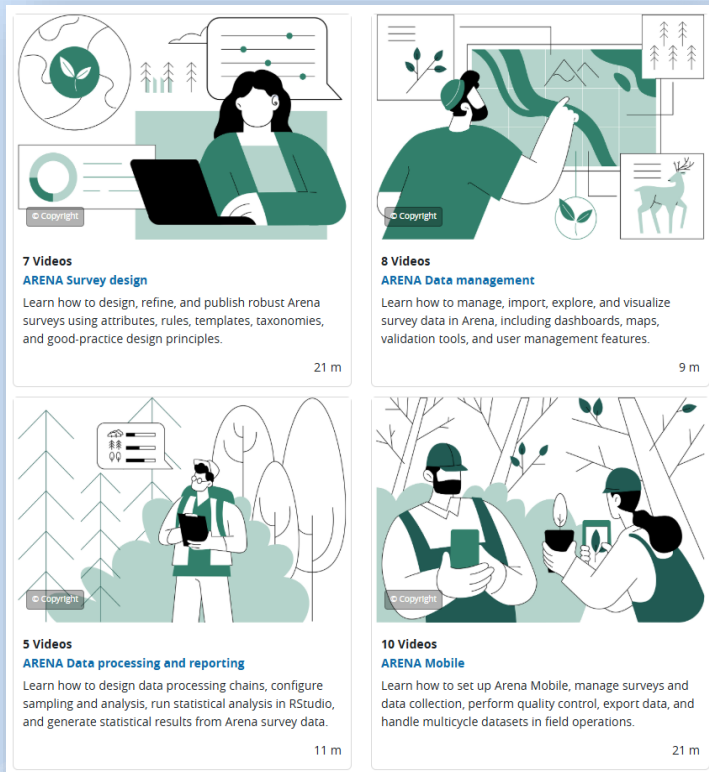
- ❖ Establishing a national forest monitoring system
- ❖ Conducting a national forest inventory
- ❖ Measurement, reporting and verification requirements
- ❖ Applying SEPAL



# Open Foris Arena

## Microlearning video series

Explore this series of bite-sized e-learning video modules to quickly build practical skills in designing surveys and collecting high-quality field data with Arena and Arena Mobile.



The image displays four video module thumbnails arranged in a 2x2 grid. Each thumbnail features an illustration of a person interacting with a device or data visualization, with icons representing environmental and surveying themes. Each thumbnail includes a video count, a title, a brief description, and a duration.

- 7 Videos**  
**ARENA Survey design**  
Learn how to design, refine, and publish robust Arena surveys using attributes, rules, templates, taxonomies, and good-practice design principles.  
21 m
- 8 Videos**  
**ARENA Data management**  
Learn how to manage, import, explore, and visualize survey data in Arena, including dashboards, maps, validation tools, and user management features.  
9 m
- 5 Videos**  
**ARENA Data processing and reporting**  
Learn how to design data processing chains, configure sampling and analysis, run statistical analysis in RStudio, and generate statistical results from Arena survey data.  
11 m
- 10 Videos**  
**ARENA Mobile**  
Learn how to set up Arena Mobile, manage surveys and data collection, perform quality control, export data, and handle multicycle datasets in field operations.  
21 m



**Arena** is a modern cloud platform for conducting comprehensive forest, environmental, and socio-economic surveys. **Arena Mobile** is a complementary mobile application for efficient field data collection fully integrated with the Arena platform.

[Course: Microlearning video series: Open Foris ARENA](#)



## A case study of the [Université Nationale d'Agriculture, Benin](#):

- was initiated through [awareness-raising efforts](#);
- was institutionalized by the [Dean](#) in 2024 after evaluating course relevance;
- had students complete the course for [digital badge grades](#) recorded on [transcripts](#); and
- offered a practical, scalable model that can be replicated across universities.

[More info: Institutionalizing FAO's National forest inventory E-learning in West Africa: Scaling knowledge for climate action through academia](#)

### [New case study:](#)

[Shaping Kenya's next generation of forest and climate professionals: CBIT Forest and the FAO elearning Academy](#)

Integration of FAO's National forest inventory e-learning course into masters programme at Université Nationale d'Agriculture, Benin



[FAO's National forest inventory e-learning course](#)

# Visit our website (QR code)

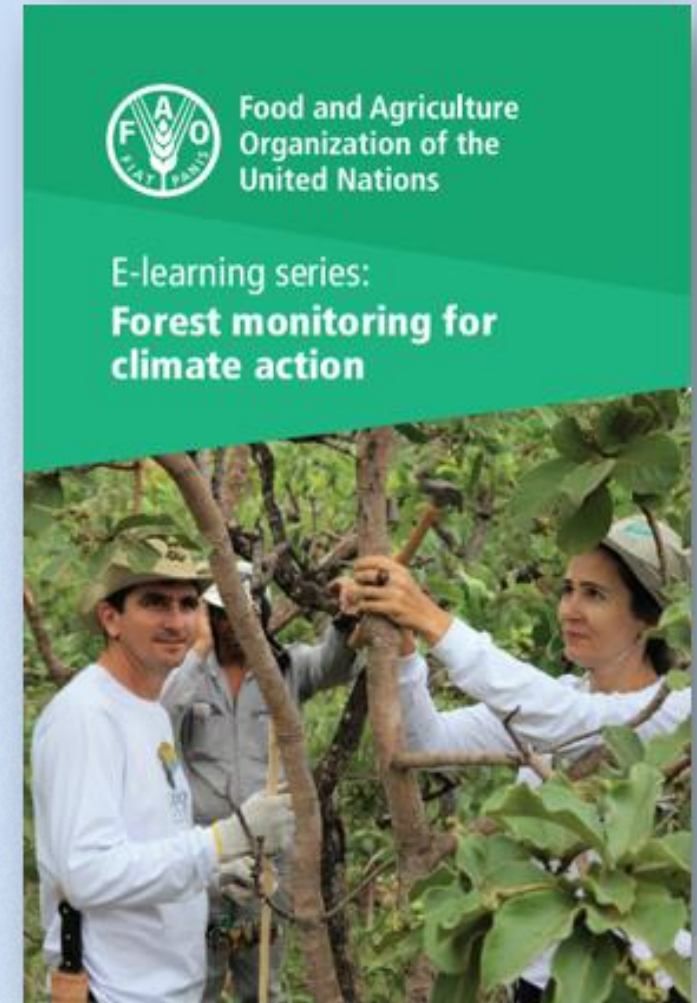


Link to the series:

EN: <https://elearning.fao.org/course/forest-monitoring-climate-action>

ES: <https://elearning.fao.org/course/forest-monitoring-climate-action-es>

FR: <https://elearning.fao.org/course/forest-monitoring-climate-action-fr>



# Two years in numbers

Get the  
publication  
here



# THANKS!



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Boosting transparency forest data

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In collaboration with:

**AIM:Forests**

 UK Government