Global and Regional

Forest Monitoring and Reporting

Anssi Pekkarinen

Global Forest Resources Assessment

FAO



Food and Agriculture Organization of the United Nations Roman Michalak Joint UNECE/FAO Forestry and Timber Section



Second Clean Forest Annual Meeting 7-10 May 2024 Lisbon, Portugal



Food and Agriculture Organization of the United Nations

GLOBAL FOREST RESOURCES ASSESSMENT (FRA)

60)

FRA

- two primary components
- COUNTRY REPORTS prepared by National Correspondents officially nominated by the countries;
- REMOTE SENSING conducted together with national focal points and international partners



FRA 2025 ROADMAP

FRA 2025 Expert consultation

National Correspondent nominations

FRA platform improvements

Data collection and regional trainings

Review

Support for Remote Sensing Flexible voluntary updates -Data analysis -Report writing -FRA 2025 RSS



Key Findings -Main report -Database



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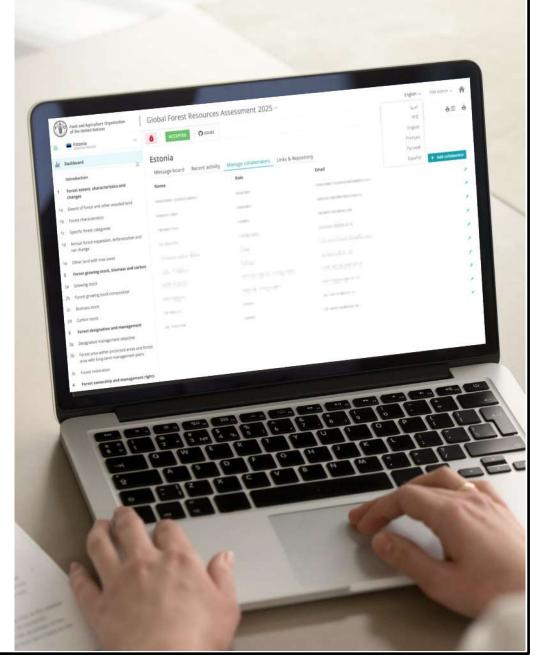
FRA Platform



The FRA platform

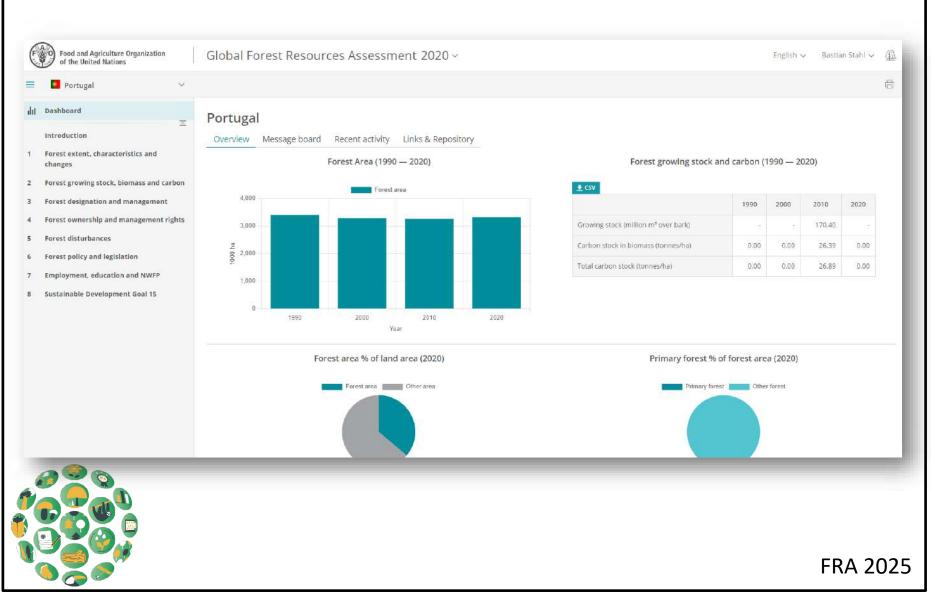
For reporting, review, analysis and dissemination

- Increase consistency
- Reduce reporting burden
- Improve quality and transparency
- Relevant frequency





Dashboard



NDP

| | Food and Agriculture Organization Glob | | | | | | | | | | | |
|------|---|--------------------------|--|---------------------|---------------------|-----------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------|
| ılıt | Dashboard | | | | | | | | | | | 1 |
| | | VATIONAL DAT | A POINT | | | | | | | | | |
| Ú | Forest extent, characteristics and changes | of forest a tions FAQ | and other wooded land | | | | | | | | | |
| 1a | Extent of forest and other wooded land | Forest C | Other wooded land | | | | | • | | • 0 | 0 0 | 0-0 |
| 1b | Forest characteristics | | | | | | | | | | | |
| 1c | Primary forest and special forest categories | | × | | | | | | | | | |
| 1d | Annual forest expansion, deforestation and net change | | www) 🛍 fra-data.fao.org/definitions/i 🧭 速 | | | | | | | | | |
| le | Annual reforestation | | For more details on FRA Programme, please see: http://www.fao.org/forest-resources- assessment/en/ | | | | | | | | 0 0 | 0-0 |
| f | Other land with tree cover | 1990 | | | | | 2020 | | | | | |
| 2 | Forest growing stock, biomass and carbon | categories | 1 Forest extent, characteristics and changes | Area (1000 ha) | | | | | | | | |
| 5 | Forest designation and management | i chicgorica | 1a Extent of forest and other wooded | 1990 | 2000 | 2010 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| | Forest ownership and management rights | oded land (b) | land FOREST | 21 875.33 925.90 | 22 445.64 823.48 | 22 242.00 | 22 409.00 746.00 | 22 409.00 |
| | Forest disturbances | | Land spanning more than 0.5 hectares | | | | | | | | | - |
| | Forest policy and legislation | | with trees higher than 5 meters and a canopy cover of more than 10 percent, or trees able to reach these thresholds <i>in situ</i> . It does not include land that is | | | | | | | | | |
| 1 | Employment, education and NWFP | | predominantly under agricultural or urban land use | | | | | | | | | |
| 8 | Sustainable Development Goal 15 | | Explanatory notes | | | | | | | | | |



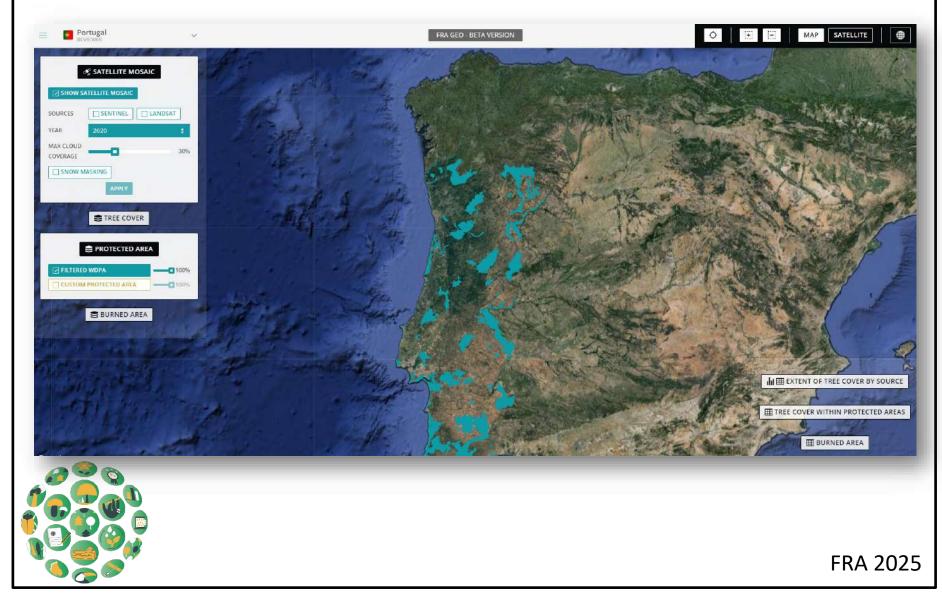
Metadata

| ٢ | Food and Agriculture Organization of the United Nations | Global Forest Resources Assessment | 2020 ~ | English ~ | Bastian Stahl 🗸 🛱 | | | |
|----------------|---|--|---------------|----------------------------------|-------------------|--|--|--|
| | Finland ~ | | | | 6 | | | |
| Intr | shboard Ξ | National data point Reference year for the data | | | | | | |
| cha 1a Exte | rest extent, characteristics and anges tent of forest and other wooded land | Data sources | | | | | | |
| lc Prin | rest characteristics mary forest and special forest legories | References | | | | | | |
| and | nual forest expansion, deforestation d net change nual reforestation | | | | | | | |
| 1f Oth | her land with tree cover rest growing stock, biomass and | Methods used | National Fore | st Inventory | | | | |
| car | rbon owing stock | Additional comments | NFI11 2013, Å | land and Northern Lapland + NFI1 | 12 2014-201 | | | |
| 2c Bior | owing stock composition mass stock | Forest | Same as FRA | | | | | |
| For | rbon stock | Original data and reclassification | | | | | | |
| 4 For righ | rest ownership and management hts | 1a Forest, other wooded land and other land | | 1b Forest characteristics | | | | |
| | | | | | | | | |
| | | | | | FRA 2025 | | | |

Data download

| Food and Agriculture Organization of the United Nations | Global Forest Resources Assessment 2020 | English 🗸 | Bastian Stahl 🗸 🏦 |
|---|---|-----------|-------------------|
| ≡ Global ~ | | | |
| Image: | Data download Bulk Download 1. Forest extent, characteristics and changes. 2. Forest growing stock, blomass and carbon 3. Forest designation and management 4. Forest ownership and management rights. 6. Area of permanent forest estate | | |
| Contact us Terms and Conditions Scam Alert Report f | Misconduct Userguide Send feedback Licenses Platform version #v3.4.0 2029-05-01 | _ | © FAO, 2024 |
| | | | FRA 202 |

GEOSPATIAL MODULES



Upcoming Application Programming Interface

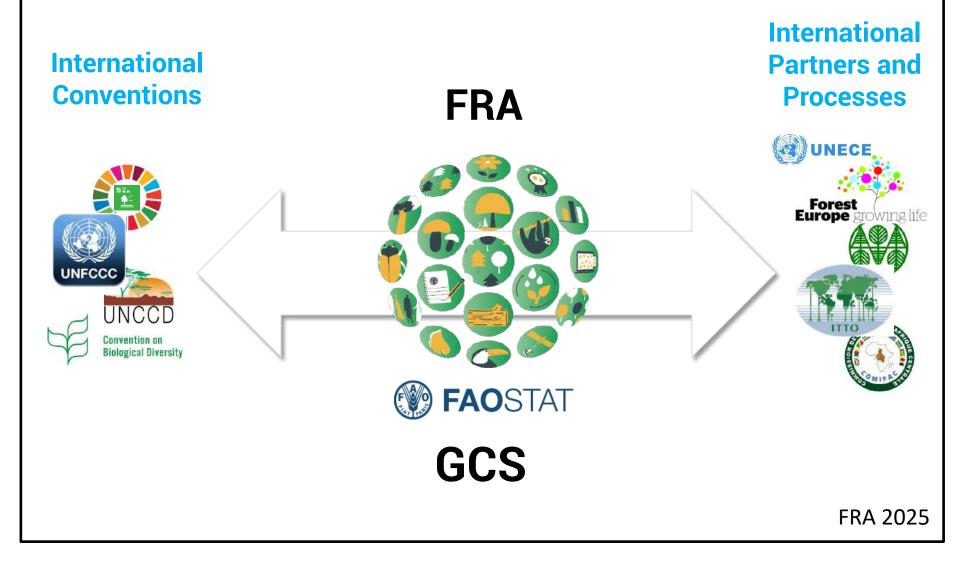
- Possible connection with multiple internal national databases and information systems

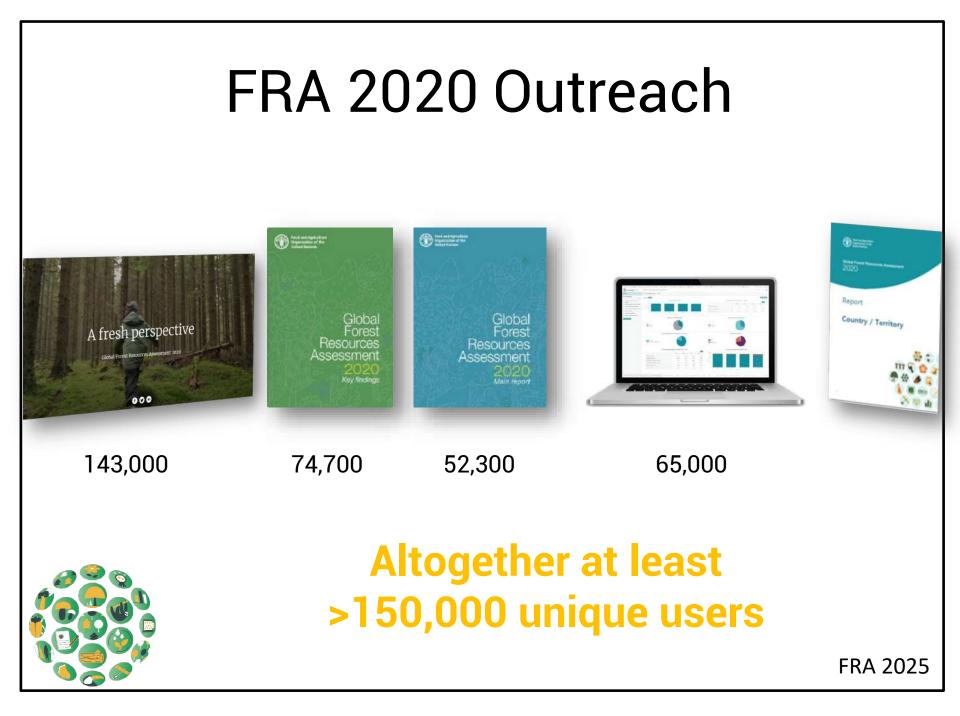
Upcoming Upload and sharing of geospatial layers



FRA 2025

Data dissemination and utilization







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FRA Remote Sensing Survey



FRA Remote Sensing Survey

FRA 2020 RSS:

First global participatory RSS

- 800 experts 126 countries
- Results:
 - Main report
 - World's mangrove assessment 2000-2020
 - + an interactive report
 - Study on agricultural drivers of deforestation

FRA 2025 RSS :

- Build on FRA 2020 RSS
- Sampling design (from 400K to 300K samples)
- 2000-2010-2018-2023

• Additional variables: agriculture systems, burned forest, mangroves

Support / piloting: Cuba, Zimbabwe, Bolivia,



Food and Agriculture Organization of the United Nations

For more information:

fra-data.fao.org

Thank you!

Global Forest Resources Assessments





FAO Global Forest Resources Assessment (FRA) provides essential information for understanding the

variables in 236 countries and territories in the period 1990–2025. FRA 2025 data are collected using commonly agreed terms and definitions through a transparent, traceable reporting process and a wellestablished network of officially nominated national correspondents that covers 191 countries and territories.

Highlights



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Partners



Ministry for Fernige Attains of Finland





trace/s international Climate and Ecrept Initi-

Joint Pan-European Data Collection on Forests and Sustainable Forest Management







Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

- The process collects data of 45 countries in the FOREST EUROPE region.
- 6 FOREST EUROPE criteria with 34 indicators submitted via national reporting and International Data Providers (IDPs).
- Covers information on forest area, forest damage, genetic resources, timber trade and many other aspects.
- JPEDC provides data to the variety of outputs, including State of Europe's Forests, and information platforms including Forest Information System for Europe (FISE).





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FOREST EUROPE pan-European criteria and indicators for sustainable forest management

1. Forest Resources & Carbon

- C.1 Policies, institutions & instruments
- 1.1 Forest area
- 1.2 Growing stock
- 1.3 Age structure &/or diameter distribution
- 1.4 Forest carbon

*

4. Biological Diversity

C.4 Policies, institutions & instruments 4.1 Diversity of tree species 4.2 Regeneration 4.3 Naturalness 4.4 Introduced tree species 4.5 Deadwood 4.6 Genetic resources 4.7 Forest fragmentation 4.8 Threatened forest species 4.9 Protected forests 4.10 Common forest bird species **3. Productive Functions** C.3 Policies, institutions & instruments 3.1 Increment and fellings 3.2 Roundwood 3.3 Non-wood goods 3.4 Services

5. Protective Functions

- C.5 Policies, institutions and instruments
- 5.1 Protective forests soil, water and other ecosystem functions - infrastructure and managed natural resources

2. Forest Health

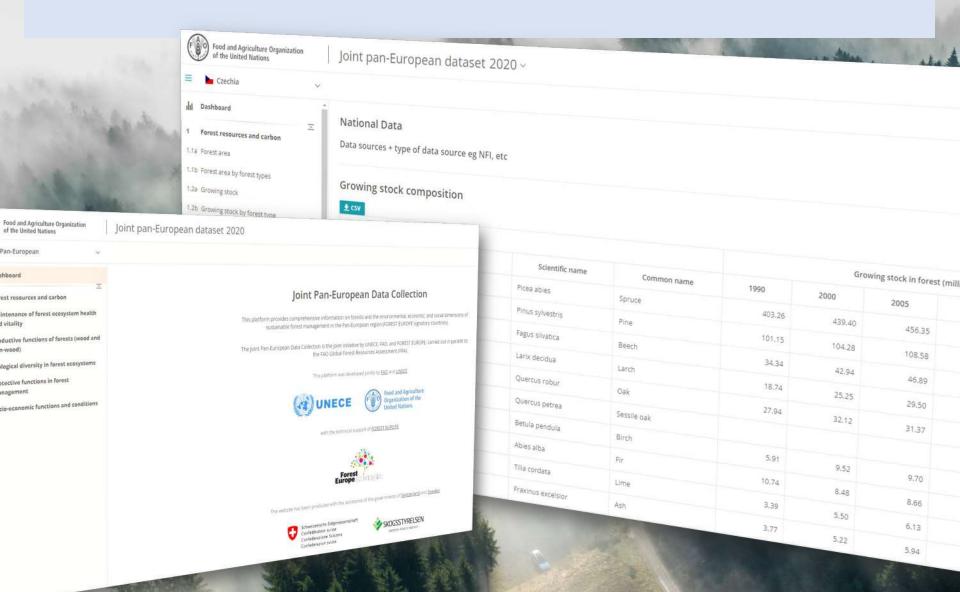
C.2 Policies, institutions & instruments 2.1 Deposition & concentration of air pollutants 2.2 Soil condition 2.3 Defoliation 2.4 Forest damage 2.5 Forest land degradation

6. Socio-economic Functions

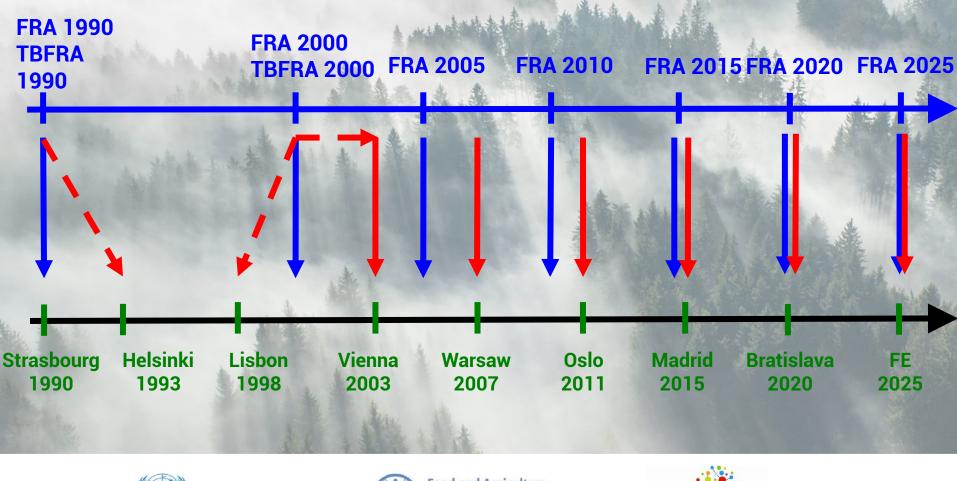
- C.6 Policies, institutions & instruments
- 6.1 Forest holdings
- 6.2 Contribution of forest sector to GDP
- 6.3 Net revenue
- 6.4 Investment in forests and forestry
- 6.5 Forest sector workforce
- 6.6 Occupational safety and health
- 6.7 Wood consumption
- 6.8 Trade in wood
- 6.9 Wood energy
- 6.10 Recreation in forests

The 2020 JPEDC data platform

https://fra-data.fao.org/assessments/panEuropean/2020/FE/home/overview/



Global and the Pan-European forest data collection







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Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

2025 cycle

The coordination among both processes include:

- data collection interface
- network of national correspondents
- network of reviewers
- technical workshop

Carried out in coordination with the FAO Global Forest Resources Assessment data collection process





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The 2025 JPEDC data collection interface



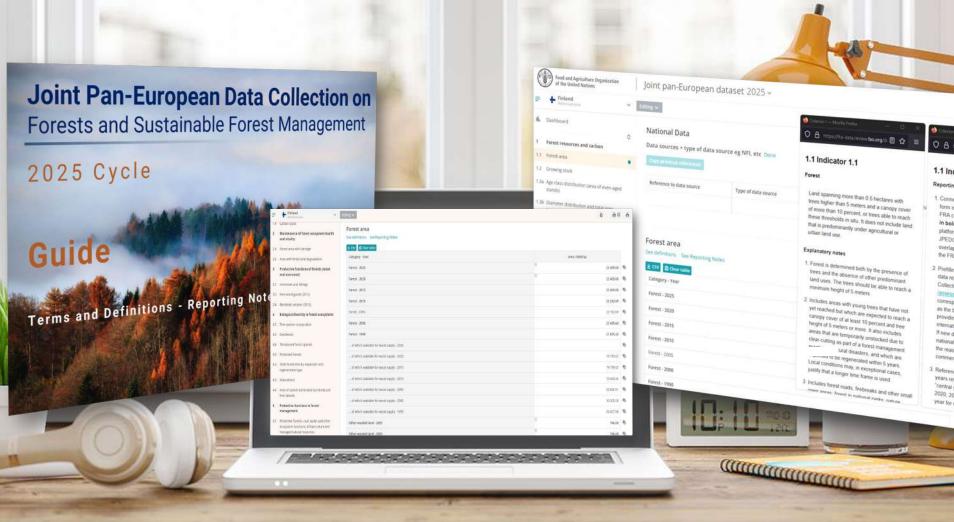
Built in the same environment as the interface for the FAO Global Forest Resources Assessment 2025.

The data collection system:

- Maintains the possible functional and visual similarity with the FRA interface
- Coordinates reporting on the overlapping variables with FRA
- Is **prefilled with data** submitted under the 2020 pan-European reporting
- Open for data reported through International Data Providers (IDPs)
- Initiates future comprehensive data management system

The development of the JPEDC data interface was possible thanks to kind support provided by the Governments of Sweden and Switzerland.

The 2025 JPEDC data collection interface



Reportin

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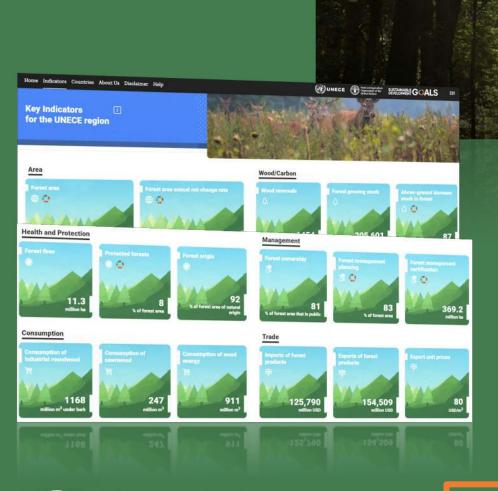
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Workshop in Helsinki for National Correspondents to the 2025 cycle



Since 1947, UNECE collects data and disseminates information on the state of forest resources, their management and forest products in the region.





JNECE

INForest

Your data and knowledge platform

for forests in the UNECE region

Rey Indicators

(i) About Us

Comprehensive Information: Covers North

Country Data

America, Europe, Russia and Central Asia



Decision Support: Assists sustainable forest management and timber use decisions.



Communication: Easy access to indicators and country-specific data

forest-data.unece.org

Interactive tool

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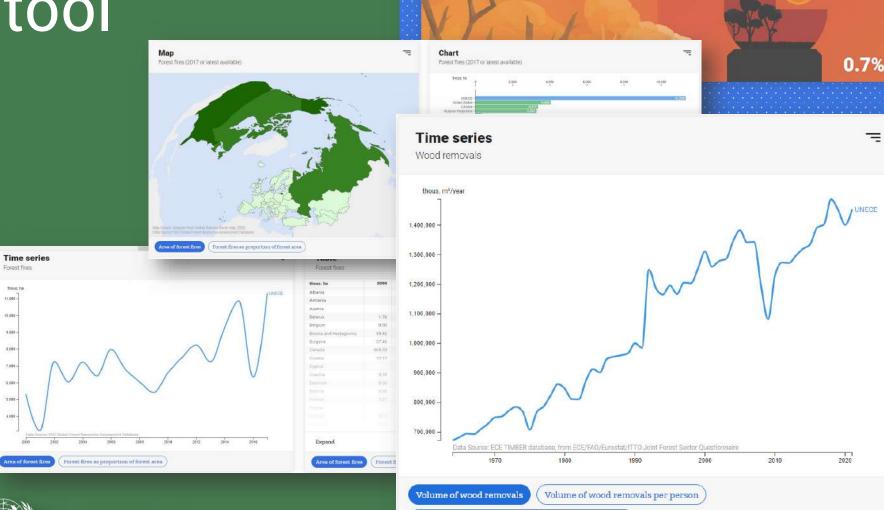
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IECE



Forest fires

Share of wood fuel in the volume of wood removals

UNECE

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SUSTAINABLE GOALS

As proportion of forest area

EN

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Thank you

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Anssi Pekkarinen

Global Forest Resources and Statistics

FAO

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