

Public Consultation on the new EU Framework for Forest Monitoring and Strategic Plans

Fields marked with * are mandatory.

Introduction

Background

European forests are under increasing stress as a result of climate change and other human activities and pressures. The new [EU Forest Strategy for 2030](#) addresses these challenges and aims to unlock the potential of forests for our future.

Knowledge of forests' status and trends is crucial for targeted and effective responses. The many EU policies affecting forests require accurate and harmonised EU-wide forest information and a basis to exchange about short, medium and long-term visions of forests and the forest-based sector. Today, information is patchy on the status of forests in the EU, their social, ecological and economic value, as well as the pressures they face and ecosystem services they provide. Forest managers and policymakers rely on national forest inventories with varying designs and update cycles to access forest data. Only a few initiatives, such as the International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests ([ICP Forests](#)) and the Land Use/Cover Area frame Survey ([LUCAS](#)), provide forest-related information across the EU. Effective policymaking is hindered by the limited information available and fragmented forest planning.

The Commission is consulting the public and other interested parties about the content of a new legislative proposal on an EU Framework for Forest Monitoring and Strategic Plans. This initiative aims to improve forest monitoring across the EU. In addition, and subject to an impact assessment, Member State competent authorities would prepare long-term strategic plans for forests and the forest-based sector, which would provide a comprehensive picture of the state, the evolution and the future developments of forests in the EU, as envisioned by Member States.

Guidance on the questionnaire

This public consultation aims at giving EU citizens, including stakeholders and experts, an opportunity to express their views on the upcoming legislative proposal for a new Framework for Forest Monitoring and Strategic Plans.

We want to hear your views on how to make the new framework as effective as possible. By replying to our EU Survey and sharing your views with us, you will help us to do so.

You are invited to respond to the following questions below regardless of your level of expertise.

The estimated time for completion of the general part is 10 minutes, followed by an optional section with a set of technical questions that should take another 10 minutes. At the end of the questionnaire you will be able to upload additional information.

All the responses to this consultation will be assessed and considered as a key input for the impact assessment of the upcoming legislative proposal. We will also produce a stand-alone summary of the results of the consultation.

Note: the questionnaire will generally refer to “forest information”, which includes forest data collection and value added products (such as forest cover, forest health, the frequency of forest fires, etc.) that contribute to enhancing our knowledge about European forests.

Thank you for taking part in this consultation.

About you

* Language of my contribution

- Bulgarian
- Croatian
- Czech
- Danish
- Dutch
- English
- Estonian
- Finnish
- French
- German
- Greek
- Hungarian
- Irish
- Italian
- Latvian
- Lithuanian
- Maltese
- Polish
- Portuguese
- Romanian
- Slovak
- Slovenian
- Spanish
- Swedish

* I am giving my contribution as

-

- Academic/research institution
- Business association
- Company/business organisation
- Consumer organisation
- EU citizen
- Environmental organisation
- Non-EU citizen
- Non-governmental organisation (NGO)
- Public authority
- Trade union
- Other

I am

- A forest owner (less than 5 hectares of forest)
- A forest owner (more than 5 hectares of forest)
- A provider of forest data
- None of the above

* First name

Delphine

* Surname

Miramont

* Email (this won't be published)

delphine.miramont@earsc.org

* Organisation name

255 character(s) maximum

European Association of Remote Sensing Data (EARSC)

* Organisation size

- Micro (1 to 9 employees)
- Small (10 to 49 employees)
- Medium (50 to 249 employees)

- Large (250 or more)

Transparency register number

255 character(s) maximum

Check if your organisation is on the [transparency register](#). It's a voluntary database for organisations seeking to influence EU decision-making.

* Country of origin

Please add your country of origin, or that of your organisation.

This list does not represent the official position of the European institutions with regard to the legal status or policy of the entities mentioned. It is a harmonisation of often divergent lists and practices.

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| <input type="radio"/> Afghanistan | <input type="radio"/> Djibouti | <input type="radio"/> Libya | <input type="radio"/> Saint Martin |
| <input type="radio"/> Åland Islands | <input type="radio"/> Dominica | <input type="radio"/> Liechtenstein | <input type="radio"/> Saint Pierre and Miquelon |
| <input type="radio"/> Albania | <input type="radio"/> Dominican Republic | <input type="radio"/> Lithuania | <input type="radio"/> Saint Vincent and the Grenadines |
| <input type="radio"/> Algeria | <input type="radio"/> Ecuador | <input type="radio"/> Luxembourg | <input type="radio"/> Samoa |
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| <input type="radio"/> Angola | <input type="radio"/> Equatorial Guinea | <input type="radio"/> Malawi | <input type="radio"/> Saudi Arabia |
| <input type="radio"/> Anguilla | <input type="radio"/> Eritrea | <input type="radio"/> Malaysia | <input type="radio"/> Senegal |
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| <input type="radio"/> Bangladesh | <input type="radio"/> | <input type="radio"/> Moldova | <input type="radio"/> |

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and Antarctic
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and the South
Sandwich
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| <input type="radio"/> Barbados | <input type="radio"/> Gabon | <input type="radio"/> Monaco | <input type="radio"/> South Korea |
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| <input checked="" type="radio"/> Belgium | <input type="radio"/> Germany | <input type="radio"/> Montenegro | <input type="radio"/> Spain |
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| <input type="radio"/> Bermuda | <input type="radio"/> Greece | <input type="radio"/> Mozambique | <input type="radio"/> Suriname |
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Jan Mayen |
| <input type="radio"/> Bolivia | <input type="radio"/> Grenada | <input type="radio"/> Namibia | <input type="radio"/> Sweden |
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Eustatius and
Saba | <input type="radio"/> Guadeloupe | <input type="radio"/> Nauru | <input type="radio"/> Switzerland |
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Herzegovina | <input type="radio"/> Guam | <input type="radio"/> Nepal | <input type="radio"/> Syria |
| <input type="radio"/> Botswana | <input type="radio"/> Guatemala | <input type="radio"/> Netherlands | <input type="radio"/> Taiwan |
| <input type="radio"/> Bouvet Island | <input type="radio"/> Guernsey | <input type="radio"/> New Caledonia | <input type="radio"/> Tajikistan |
| <input type="radio"/> Brazil | <input type="radio"/> Guinea | <input type="radio"/> New Zealand | <input type="radio"/> Tanzania |
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Ocean Territory | <input type="radio"/> Guinea-Bissau | <input type="radio"/> Nicaragua | <input type="radio"/> Thailand |
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Islands | <input type="radio"/> Guyana | <input type="radio"/> Niger | <input type="radio"/> The Gambia |
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McDonald Islands | <input type="radio"/> Niue | <input type="radio"/> Togo |
| <input type="radio"/> Burkina Faso | <input type="radio"/> Honduras | <input type="radio"/> Norfolk Island | <input type="radio"/> Tokelau |
| <input type="radio"/> Burundi | <input type="radio"/> Hong Kong | <input type="radio"/> Northern
Mariana Islands | <input type="radio"/> Tonga |
| <input type="radio"/> Cambodia | <input type="radio"/> Hungary | <input type="radio"/> North Korea | <input type="radio"/> Trinidad and
Tobago |
| <input type="radio"/> Cameroon | <input type="radio"/> Iceland | <input type="radio"/> North Macedonia | <input type="radio"/> Tunisia |
| <input type="radio"/> Canada | <input type="radio"/> India | <input type="radio"/> Norway | <input type="radio"/> Turkey |
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- Cape Verde
- Cayman Islands
- Central African Republic
- Chad
- Chile
- China
- Christmas Island
- Clipperton
- Cocos (Keeling) Islands
- Colombia
- Comoros
- Congo
- Cook Islands
- Costa Rica
- Côte d'Ivoire
- Croatia
- Cuba
- Curaçao
- Cyprus
- Czechia
- Democratic Republic of the Congo
- Denmark
- Indonesia
- Iran
- Iraq
- Ireland
- Isle of Man
- Israel
- Italy
- Jamaica
- Japan
- Jersey
- Jordan
- Kazakhstan
- Kenya
- Kiribati
- Kosovo
- Kuwait
- Kyrgyzstan
- Laos
- Latvia
- Lebanon
- Lesotho
- Liberia
- Oman
- Pakistan
- Palau
- Palestine
- Panama
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Pitcairn Islands
- Poland
- Portugal
- Puerto Rico
- Qatar
- Réunion
- Romania
- Russia
- Rwanda
- Saint Barthélemy
- Saint Helena
- Ascension and Tristan da Cunha
- Saint Kitts and Nevis
- Saint Lucia
- Turkmenistan
- Turks and Caicos Islands
- Tuvalu
- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States
- United States Minor Outlying Islands
- Uruguay
- US Virgin Islands
- Uzbekistan
- Vanuatu
- Vatican City
- Venezuela
- Vietnam
- Wallis and Futuna
- Western Sahara
- Yemen
- Zambia
- Zimbabwe

The Commission will publish all contributions to this public consultation. You can choose whether you would prefer to have your details published or to remain anonymous when your contribution is published. **For the purpose of transparency, the type of respondent (for example, 'business association, 'consumer association', 'EU citizen') country of origin, organisation name and size, and its**

transparency register number, are always published. Your e-mail address will never be published.

Opt in to select the privacy option that best suits you. Privacy options default based on the type of respondent selected

* Contribution publication privacy settings

The Commission will publish the responses to this public consultation. You can choose whether you would like your details to be made public or to remain anonymous.

Anonymous

Only organisation details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published as received. Your name will not be published. Please do not include any personal data in the contribution itself if you want to remain anonymous.

Public

Organisation details and respondent details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published. Your name will also be published.

I agree with the [personal data protection provisions](#)

Section A - Use of forest information

Do you consult forest information for professional purposes?

- Yes
 No

For which sector(s) or purpose(s) do you consult forest information?

- Forestry and wood production
 Other bioeconomy sectors
 Recreation and tourism
 Climate mitigation
 Climate adaptation
 Biodiversity
 Air quality
 Hydrology (e.g. water quality or quantity)

- Soil science (quality, erosion, nutrients)
- Natural and cultural heritage
- Other non-wood products and services
- Education
- Spatial planning
- Other

If other, please specify

land use/ cover change

What sources do you consult for information on forests?

- Government publications and websites
- Publications by academics, such as from research centres, universities and research projects
- Private data providers, such as companies, business associations and individuals
- General and specialised media and news outlets
- Forest sector organisations and media
- Non-governmental organisations (NGO)
- Other

If other, please specify

Copernicus data and services

Section B - General questionnaire

Background: Forest Monitoring

Today there is only patchy information on the state of forests in the EU, their social and economic value, as well as the pressures they face and ecosystem services they provide. Since 2007, when the [Forest Focus Regulation](#) expired, there have been no comprehensive reporting requirements. In addition, there are challenges related to the use of remote sensing data (e.g. satellite imagery, airborne laser-scanning, etc.) together with ground-based data (i.e. lack of interoperability, common definitions, ambiguity in data interpretation, a lack of long and comparable very high resolution time-series, and limitations of the current standard forest products from [Copernicus](#)).

EU Member States have acknowledged the central role of forests and the forest-based bioeconomy in the EU's transition to a climate-neutral economy. However, monitoring and reporting mechanisms are scattered, and operate on different definitions, time scales and intervals across the EU Member States. The legislative proposal will establish an EU-wide integrated forest monitoring framework, ensuring /promoting the use of remote sensing technologies integrated with ground-based monitoring. It will consider

different options aimed at ensuring that the public has access to harmonised, timely and interoperable information with high spatial granularity on EU forests.

Forest information: To what extent do you agree with the following statements?

We need EU-wide harmonised and timely information on...

	Agree	Somewhat agree	Somewhat disagree	Disagree	No opinion
...forest health	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...forest disturbances (e.g. pests, wildfires)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...climate change impacts on forests	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...climate change projections for forests	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...forest biodiversity	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...wood production	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...forest carbon stocks and flows	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...other forest ecosystem services	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...forest management	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...non-wood products and services, including recreation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If other, please specify

deforestation, degradation, forests ecosystem fragmentation

Please indicate how important you consider the following possible improvements to forest monitoring in the EU.

	Very important	Important	Somewhat important	Not important	No opinion
More consistent and comparable forest information across borders	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More frequent forest information, e.g. monthly or yearly instead of multi-annual data	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

More timely forest information, e.g. data will be available days after data collection instead of months or even after multiple years	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Higher granularity of forest information, e.g. land parcel level, grid-cell, resolution	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More accurate and trustworthy forest information, e.g., through the use of modern technology, common definitions and increased transparency	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Better and easier access to forest information, e.g., data portals, search functions, APIs, one-stop shop	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Better thematic data on forests e.g. more thematic data layers, less generalisation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If other, please specify

Achieving Europe's forest restoration goals will require multifaceted coordinated efforts throughout all EU member states. Measuring forest changes in a timely manner is a prerequisite for understanding forest policy effectiveness and driving progress towards the 2030 goals. Forest measurements through Earth Observation technology can provide objectivity and transparency. Without this transparency through more frequent data, the success of the EU forest legislation may not meet the expectations of its initiators because: "You cannot manage what you don't measure".

At the moment, EU and national policymakers have insufficient data to assess Europe's forests. Centralized information is only updated every 3 years, and often with a delay. Copernicus Sentinel data is an excellent starting point for deriving the necessary forest measurements. It can further be complemented by additional commercial sensors to provide actionable insights. The good news is that the data and service technology for providing the required transparency for addressing today's forest challenges across Europe is available today.

- Increasing availability and enabling interactive access to public data on forest ecosystems at the national and EU level
- Establishment and regular (frequent) updating of forest ecosystems databases on national level
- Establishment of near-real-time systems for the monitoring of the spread of forest pests, invasive organisms and other types of disturbances

In your view, what are the main current challenges to ensuring EU-wide forest information that is detailed, accurate, regular, timely, comparable and openly accessible?

Use drag&drop or the up/down buttons to change the order or [accept the initial order](#).

⋮ Insufficient uptake of information derived from remote sensing

- ⋮ Limited comparability of data due to lack of standardised national forest inventories
- ⋮ Absence of a regulatory framework and standards
- ⋮ Data availability
- ⋮ Privacy or trade secret issues
- ⋮ Other

If other, please specify

We need to use all available data, unfortunately organizations still do not use all the data which is available. Copernicus, the EU's Earth Observation programme, is a crucial component needed to achieve the goals of the EU Forest Strategy. However, Copernicus Sentinel data alone will not be sufficient for deriving the necessary forest measurements. Complementary so-called Copernicus Contributing Missions composed i.e, of commercial Earth Observation missions, designed to be interoperable with Copernicus datasets, have a crucial role to play in enhancing what Copernicus can provide. Contributing with frequently refreshed (up to daily in certain specific contexts), global, highly detailed (up to sub-meter per pixel) data, commercial satellite imagery can offer the necessary additional spatial and temporal resolutions to allow EU policymakers and Member States' authorities to gain common insights over the EU's forests.

The accessibility of forest information can vary: it can be paid, free, shared in aggregated form (e.g. only national averages), with certain information obfuscated (e.g. hiding exact geographic coordinates), in difficult to use data formats or be available only on demand. In your view, is better access to forest information needed?

- Yes, whenever possible with open access to full data
- Yes, whenever possible with open access to aggregated data
- Yes, but only under specific conditions (Please specify)
- No
- No opinion

Monitoring technologies: To what extent do you agree with the following statements?

	Agree	Somewhat agree	Somewhat disagree	Disagree	No opinion
Monitoring systems should mainly build on field observations	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Where applicable, monitoring systems should mainly build on remote-sensing technologies	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Monitoring systems should integrate both field data and remote-sensing	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Monitoring systems should make use of the most cost-efficient technologies	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If other, please specify

Relying on either earth observation or field-data in isolation is not the ideal way to proceed. The integration of the two types of data brings huge advantages, to the precision of observations as well a reduction in the cost and time of field data collection.

Policy options: To what extent do you agree with the following policy options?

	Agree	Somewhat agree	Somewhat disagree	Disagree	No opinion
Member States should continue current monitoring systems (business-as-usual)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data from Member States' monitoring systems should be better integrated, but with little change to monitoring methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data from Member States' monitoring systems should be better integrated, and the EU should coordinate the use of standardised forest monitoring methods implemented by Member States	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EU should operate a single monitoring system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What are the main benefits from creating an EU-wide forest monitoring system with detailed, accurate, regular, timely, comparable and openly accessible information?

Use drag&drop or the up/down buttons to change the order or [accept the initial order](#).

- Better forest management and forest planning
- Better preparedness to prevent and respond to natural disturbances (e.g. forest fires, storm damages, floods, pests, geological hazards), including coordination across borders
- More effective policy making
- Better control of illegal logging
- Better scientific knowledge (e.g. on forest health, climate adaptation, etc.)
-

- More transparent markets for forest products (e.g. on management practices, carbon certification, etc.)
- Savings from the use of remote-sensing technologies and economies of scale
- Diversification of forest ecosystem services
- More sustainable use of forests for the bioeconomy
- Other

If other, please specify

Policy options: To what extent do you agree with the following policy options?

	Agree	Somewhat agree	Somewhat disagree	Disagree	No opinion
Financing should be provided only through existing EU financial programmes, e.g., Copernicus , Horizon Europe	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Financing should be provided only through Member States' resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Financing should be provided only through resources from relevant private sectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Financing should be provided through a combination of Member State, private and EU resources	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Any further important aspects which should be considered for forest monitoring?

Background: Forest Strategic Plans

Forests serve overlapping, sometimes also competing, economic, environmental and social demands that may change over time. In parallel, forests are changing because of other pressures such as climate change. Existing Member State plans (e.g., the National Energy and Climate Plans, Strategic Plans for the Common Agricultural Policy or forthcoming Nature Restoration Plans) already address forests and the forest-based sector but in a limited way. Few Member States have developed strategic documents for forests with a planning horizon beyond 10-years. So far there is no system to assess e.g., multiple demands on forests, facilitate policy integration and consistency or ensure needed adjustments of forests and the forest-based sector to a changing climate.

The Commission is considering legally requiring Member States or, as applicable, regional authorities to prepare Strategic Plans for forests. These would lay out the strategic vision of Member States for their forests and the forest-based sector for the next several decades. The plans would not be subject to approval by the Commission but could contain common elements and a general structure to allow for comparability, exchange and coordination among Member States. They could thus provide a comprehensive picture of the state and the evolution of forests in the EU, as envisioned by Member States.

How well do you know the following strategies and planning tools?

	I don't know them	I have heard of them	I know them	I use them or work with them
National or regional forest programs, plans or strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
National Energy and Climate Plans	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Strategic Plans for the Common Agriculture Policy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
National or regional Climate Adaptation Strategies	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
National Forestry Accounting Plans	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Long-term Strategies for the climate	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
National Forest Risk Assessment Plans	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
National/regional forest management plans	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Disaster-risk reduction strategies /documents	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prioritised Action Frameworks	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
National Biodiversity Strategies	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
National Ecosystem Assessments	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Management plans of Natura 2000 sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
National Bioeconomy Action Plans	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
National reports to Forest Europe	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Other key document	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

In your view, what could be the added value of Strategic Plans for Forests?

- Better disaster assessment and preparedness
- Better policy design
- Better policy coherence

- Better management of forest use and future forest demand
- Providing a holistic view on forest status and trends
- Overall coordination of long-term forest planning
- Comparability and exchange with other Member States
- None
- Other

Do you agree that Strategic Plans for forest should tackle/cover the following issues?

	Agree	Somewhat agree	Somewhat disagree	Disagree	No opinion
Policy integration and consistency, e.g., common entry point, single strategy or planning document integrating all policies addressing forests; coherence with other planning documents	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Policy planning on, e.g., biomass provision for the bioeconomy and bioenergy, carbon storage, habitat protection, biodiversity restoration, clean water and air, recreation, social space	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Policy monitoring, e.g., coherence in forest monitoring, policy design and control based on monitoring	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest disturbance/disaster prevention and preparedness, e.g., current and future risk assessment, climate-related risk management	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes in forest management, e.g., future silvicultural management, ecosystem resilience; biodiversity; non-wood resources; needs for peri-urban forests; impacts on forest-based sector	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

In your view, which will be the main stakeholder groups benefitting from an EU framework for forest monitoring and strategic plans?

Use drag&drop or the up/down buttons to change the order or [accept the initial order](#).

⋮ Government organisations

⋮ Research

Private forest owners

Non-governmental organisations (NGO)

Businesses and business associations

International protocols, networks

General public

Nobody

Any further important aspects which should be considered for forest strategic plans?

Any further comments you would like to share?

Section C - Specialist questionnaire

In your view, how important is it to monitor the following forest indicators?

	Very important	Important	Somewhat important	Not important	No opinion
Forest/tree cover	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest biomass	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Canopy height	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest carbon (as far as possible separated among carbon pools)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest foliage/phenology/anomalies	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree age	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree species/composition	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deadwood (volume, type, diversity)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest soil properties (carbon, compaction, soil biodiversity)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presence of red-listed species	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abundance of common forest birds	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest fires (number, area and volume burnt, etc.)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Storms (number, area and volume affected, etc.)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pest and disease outbreaks (number, area and volume affected, type of pest or disease, etc.)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other forest disturbances	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest/tree cover change (gains, losses)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest connectivity/fragmentation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Tree health	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest growth	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree age diversity	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree species diversity	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Silvicultural system	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Main management objectives (production, conservation, protection)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest type	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Areas of primary and old-growth forests	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest ancientness (length of time without land-use change)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest structural diversity	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diversity and share of forest habitats	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Volume of wood harvested	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest areas covered by a management plan	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest areas with independent certification	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ratio of annual fellings to annual increment	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest revenues (timber and non-timber)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Price of wood and wood products	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Employment in the forest sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frequency of forest visits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If other, please specify

biodiversity, land use change

To rate the monitoring of several forest indicators in the following question, please choose a country whose indicators you would like to rate

Please add your country of origin, or that of your organisation.

This list does not represent the official position of the European institutions with regard to the legal status or policy of the entities mentioned. It is a harmonisation of often divergent lists and practices.

- | | | | |
|---|---|--|--|
| <input type="radio"/> Afghanistan | <input type="radio"/> Djibouti | <input type="radio"/> Libya | <input type="radio"/> Saint Martin |
| <input type="radio"/> Åland Islands | <input type="radio"/> Dominica | <input type="radio"/> Liechtenstein | <input type="radio"/> Saint Pierre and Miquelon |
| <input type="radio"/> Albania | <input type="radio"/> Dominican Republic | <input type="radio"/> Lithuania | <input type="radio"/> Saint Vincent and the Grenadines |
| <input type="radio"/> Algeria | <input type="radio"/> Ecuador | <input type="radio"/> Luxembourg | <input type="radio"/> Samoa |
| <input type="radio"/> American Samoa | <input type="radio"/> Egypt | <input type="radio"/> Macau | <input type="radio"/> San Marino |
| <input type="radio"/> Andorra | <input type="radio"/> El Salvador | <input type="radio"/> Madagascar | <input type="radio"/> São Tomé and Príncipe |
| <input type="radio"/> Angola | <input type="radio"/> Equatorial Guinea | <input type="radio"/> Malawi | <input type="radio"/> Saudi Arabia |
| <input type="radio"/> Anguilla | <input type="radio"/> Eritrea | <input type="radio"/> Malaysia | <input type="radio"/> Senegal |
| <input type="radio"/> Antarctica | <input type="radio"/> Estonia | <input type="radio"/> Maldives | <input type="radio"/> Serbia |
| <input type="radio"/> Antigua and Barbuda | <input type="radio"/> Eswatini | <input type="radio"/> Mali | <input type="radio"/> Seychelles |
| <input type="radio"/> Argentina | <input type="radio"/> Ethiopia | <input type="radio"/> Malta | <input type="radio"/> Sierra Leone |
| <input type="radio"/> Armenia | <input type="radio"/> Falkland Islands | <input type="radio"/> Marshall Islands | <input type="radio"/> Singapore |
| <input type="radio"/> Aruba | <input type="radio"/> Faroe Islands | <input type="radio"/> Martinique | <input type="radio"/> Sint Maarten |
| <input type="radio"/> Australia | <input type="radio"/> Fiji | <input type="radio"/> Mauritania | <input type="radio"/> Slovakia |
| <input type="radio"/> Austria | <input type="radio"/> Finland | <input type="radio"/> Mauritius | <input type="radio"/> Slovenia |
| <input type="radio"/> Azerbaijan | <input type="radio"/> France | <input type="radio"/> Mayotte | <input type="radio"/> Solomon Islands |
| <input type="radio"/> Bahamas | <input type="radio"/> French Guiana | <input type="radio"/> Mexico | <input type="radio"/> Somalia |
| <input type="radio"/> Bahrain | <input type="radio"/> French Polynesia | <input type="radio"/> Micronesia | <input type="radio"/> South Africa |
| <input type="radio"/> Bangladesh | <input type="radio"/> French Southern and Antarctic Lands | <input type="radio"/> Moldova | <input type="radio"/> South Georgia and the South Sandwich Islands |

- Barbados
- Belarus
- Belgium
- Belize
- Benin
- Bermuda
- Bhutan

- Bolivia
- Bonaire Saint Eustatius and Saba
- Bosnia and Herzegovina
- Botswana
- Bouvet Island
- Brazil
- British Indian Ocean Territory
- British Virgin Islands
- Brunei
- Bulgaria

- Burkina Faso
- Burundi

- Cambodia

- Cameroon
- Canada
- Cape Verde
- Cayman Islands
-

- Gabon
- Georgia
- Germany
- Ghana
- Gibraltar
- Greece
- Greenland

- Grenada
- Guadeloupe

- Guam

- Guatemala
- Guernsey
- Guinea
- Guinea-Bissau

- Guyana

- Haiti
- Heard Island and McDonald Islands
- Honduras
- Hong Kong

- Hungary

- Iceland
- India
- Indonesia
- Iran

- Iraq

- Monaco
- Mongolia
- Montenegro
- Montserrat
- Morocco
- Mozambique
- Myanmar/Burma

- Namibia
- Nauru

- Nepal

- Netherlands
- New Caledonia
- New Zealand
- Nicaragua

- Niger

- Nigeria
- Niue

- Norfolk Island
- Northern Mariana Islands
- North Korea
- North Macedonia
- Norway
- Oman
- Pakistan

- Palau

- South Korea
- South Sudan
- Spain
- Sri Lanka
- Sudan
- Suriname
- Svalbard and Jan Mayen
- Sweden
- Switzerland

- Syria

- Taiwan
- Tajikistan
- Tanzania
- Thailand

- The Gambia

- Timor-Leste
- Togo

- Tokelau
- Tonga

- Trinidad and Tobago
- Tunisia
- Turkey
- Turkmenistan
- Turks and Caicos Islands
- Tuvalu

Central African Republic

- Chad
- Chile
- China
- Christmas Island
- Clipperton
- Cocos (Keeling) Islands
- Colombia
- Comoros
- Congo
- Cook Islands
- Costa Rica
- Côte d'Ivoire
- Croatia
- Cuba
- Curaçao
- Cyprus
- Czechia
- Democratic Republic of the Congo
- Denmark
- Ireland
- Isle of Man
- Israel
- Italy
- Jamaica
- Japan
- Jersey
- Jordan
- Kazakhstan
- Kenya
- Kiribati
- Kosovo
- Kuwait
- Kyrgyzstan
- Laos
- Latvia
- Lebanon
- Lesotho
- Liberia
- Palestine
- Panama
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Pitcairn Islands
- Poland
- Portugal
- Puerto Rico
- Qatar
- Réunion
- Romania
- Russia
- Rwanda
- Saint Barthélemy
- Saint Helena
- Ascension and Tristan da Cunha
- Saint Kitts and Nevis
- Saint Lucia
- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States
- United States Minor Outlying Islands
- Uruguay
- US Virgin Islands
- Uzbekistan
- Vanuatu
- Vatican City
- Venezuela
- Vietnam
- Wallis and Futuna
- Western Sahara
- Yemen
- Zambia
- Zimbabwe

How would you rate the monitoring of the following forest indicator currently monitored in the chosen country?

	Excellent	Good	Fair	Deficient	No opinion
Forest/tree cover	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest biomass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Canopy height	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest carbon (as far as possible separated among carbon pools)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest foliage/phenology/anomalies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree age	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree species/composition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deadwood (volume, type, diversity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest soil properties (carbon, compaction, soil biodiversity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presence of red-listed species	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abundance of common forest birds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest fires (number, area and volume burnt, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Storms (number, area and volume affected, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pest and disease outbreaks (number, area and volume affected, type of pest or disease, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other forest disturbances	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest/tree cover change (gains, losses)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest connectivity/fragmentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree health	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest growth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree age diversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tree species diversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Silvicultural system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Main management objectives (production, conservation, protection)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest type	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Areas of primary and old-growth forests	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest ancientness (length of time without land-use change)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest structural diversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diversity and share of forest habitats	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Volume of wood harvested	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest areas covered by a management plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Forest areas with independent certification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ratio of annual fellings to annual increment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forest revenues (timber and non-timber)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Price of wood and wood products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Employment in the forest sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frequency of forest visits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What do you see as technical challenges for an improved forest monitoring in the EU?

Ground or in situ data...

	Major challenge	Minor challenge	Not a challenge	No opinion
...availability	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... access	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...collection frequency	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
...spatial sampling density	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
...sampling design	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Remote-sensing data...

	Major challenge	Minor challenge	Not a challenge	No opinion
...availability	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...access	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...collection frequency	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
...spatial resolution	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
...comprehensiveness	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
...integration with ground or in situ data	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Contact

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