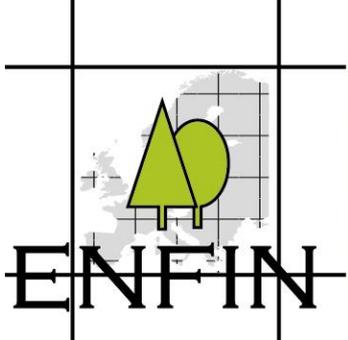


Strengthening the ENFIN network in providing forest information for international purposes – Overview on NFIs

Klemens Schadauer
ENFIN Chair

TAPIO 



European
National
Forest
Inventory
Network

Questionnaire availability of NFI field data (21)

- General questions



- Data for the EU



- Availability of NFI field data



General questions (24)

5. On a scale of 1 to 5, (1= least important ... 5= most important), what should be improved to make the use of NFI data more efficient in EU agencies and organisation ("challenges and bottleneck"? Please indicate only one alternative as "1", only one as "2" etc.

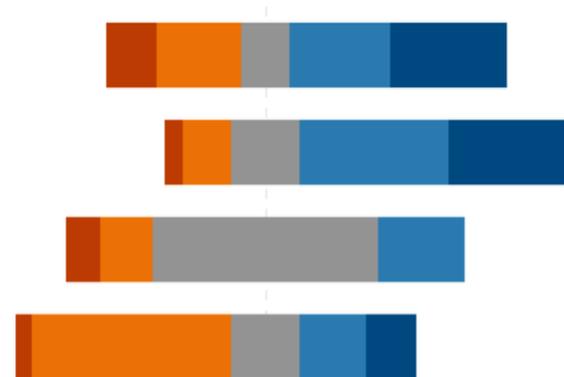
■ 1 ■ 2 ■ 3 ■ 4 ■ 5

Data policy

Harmonization

Data content

Temporal/spatial resolution



General questions regarding NFIs and cooperation between NFIs (24)

Comments on resources

- Calculating and providing data needs time, high quality knowledge and personnel resources
- Strategies for reducing reporting burden and for a joint monitoring framework
 - Common platform and data base
 - Steady synchronization of NFI data flow and aggregation
- Financing of data collection, especially for those countries that have NFI system that does not serve well the needs

General questions regarding NFIs and cooperation between NFIs (24)

4. Which are the main EU and international organisations/ information services you provide with NFI data and information?

Top ones:

- FAO
- Forest Europe
- EEA
- EUROSTAT
- UNFCCC

Also mentioned:

- OECD
- UNECE
- CLRTAP
- SDGs
- JFSQ
- EU habitats directive

General questions regarding NFIs and cooperation between NFIs (24)

7. What benefits for the EC and the NFIs would you expect from a closer cooperation between the NFIs?

European Commission

- Use of already functional data sampling systems
- Infrastructure and standardized procedures for data provision
- More reliable and timely data
- New geospatial products
- Compatibility of NFI-based and EO-based data
- Better research work

Member States

- Learning from each other
- Cooperate for innovations
- Better valorization of all NFI data/information
- Evolution of NFIs toward more continuous provision of up to date information
- Better research work

General questions regarding NFIs and cooperation between NFIs (24)

8. In your opinion, what form of cooperation would you consider most appropriate?

- Concentrate on developing data collection methods
- Training, capacity building
- Common research projects, institutional funding
- Must be a continuous cooperation and with representation of experts from all countries

General questions regarding NFIs and cooperation between NFIs (24)

8. In your opinion, what form of cooperation would you consider most appropriate?

- Small office able to streamline the communication, lobbying and project-funding
- Distribution of tasks among EC – ENFIN and NFIs with a full respect of national competence
- Establishment of an official board with all MS NFIs
- European Office - establishment of an official board with all MS NFIs
- Standardization of NFI for creating a pan-European Forest Monitoring system fully integrated with the Copernicus program

General questions regarding NFIs and cooperation between NFIs (24)

9. Does the closer cooperation imply continuous funding or permanent staff for an ENFIN office?

- Yes !!!
- Extremely difficult for people to undertake this work alongside their current duties.
- At minimum two persons, one for networking/coordinates and one for data preparing
- Rotating system

General questions regarding NFIs and cooperation between NFIs (24)

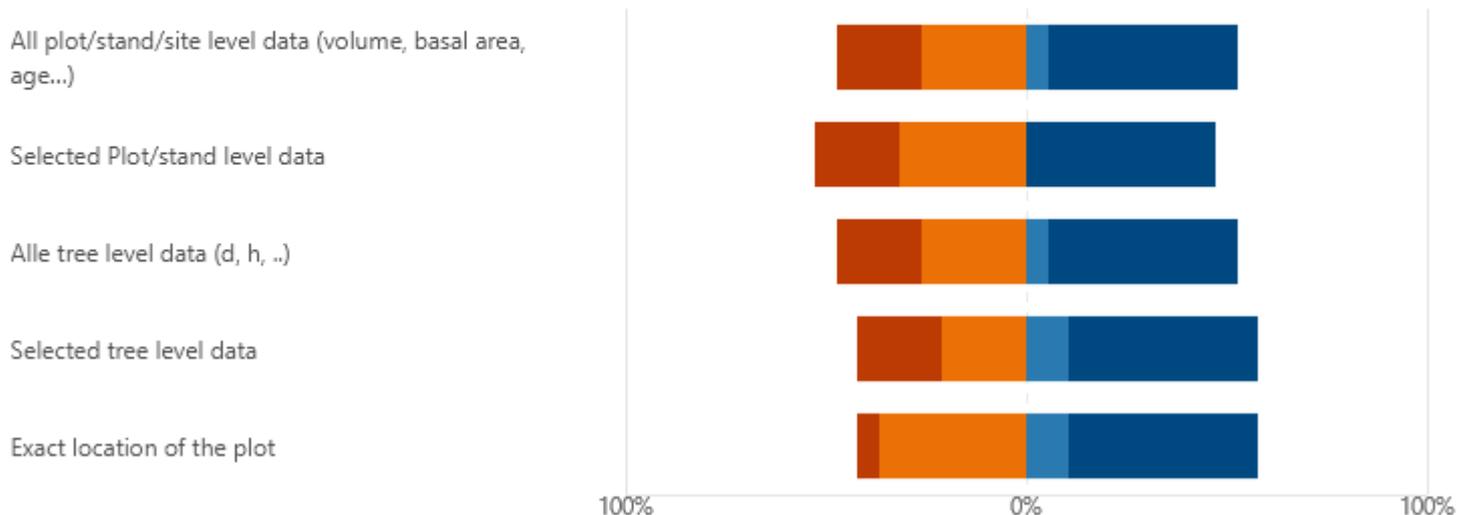
10. Other ideas and comments on cooperation between European NFIs:

- A common web-based platform for data provision and knowledge exchange
- common development of
 - software engineering
 - evaluation procedures
 - review of procedures in field measurement
 - evaluation processes
 - ...

Questionnaire to ENFIN Members

4. What is your data policy regarding **temporary sample plots**?

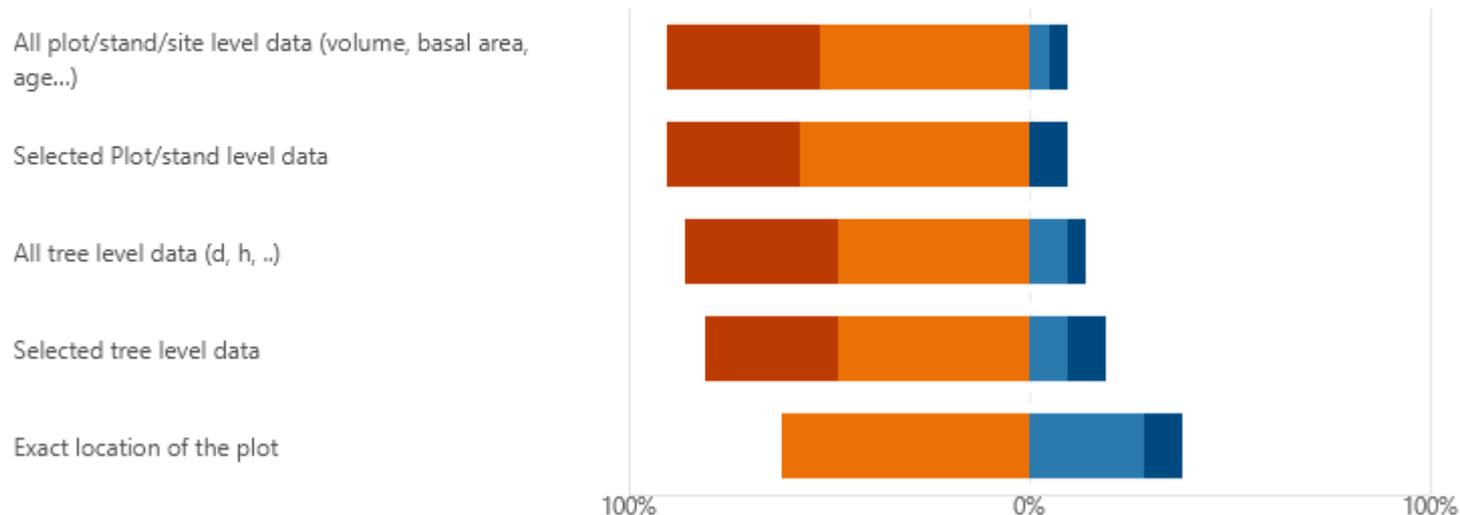
■ Allowed to all users
 ■ Allowed for scientific use/by special agreement
 ■ Access not allowed
 ■ Not applicable



Questionnaire availability of NFI field data (21)

5. What is your data policy regarding **permanent sample plots**?

■ Allowed to all users
 ■ Allowed for scientific use/by special agreement
 ■ Access not allowed
 ■ Not applicable



Questionnaire availability of NFI field data (21)

6. Do you make any difference between domestic and international data requests?

- Yes 4
- No 17



9. In your country, has there been any discussions on changing the data policy of the NFI (y/n)?

- Yes 8
- No 11



Questionnaire EU data needs (22)

4. A European Green Deal and the EU plan for Green Transition (Fit for 55).

- Directly measured ■ Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty ■ Information needs not fulfilled by NFI today
- European definition missing

Forest area

Forest carbon stock

Carbon stock changes

Soil carbon stock

Soil carbon changes



Questionnaire EU data needs (22)

6. Biodiversity strategy of the EU

- Directly measured
- Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty
- Information needs not fulfilled by NFI today
- European definition missing



- Some uncertainty on definitions of primary and old growth forests
- Forest area by management categories relates to the need to develop closer-to-nature forest management practices

Questionnaire EU data needs (22)

8. EU taxonomy for sustainable activities

- Directly measured
- Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty
- Information needs not fulfilled by NFI today
- European definition missing

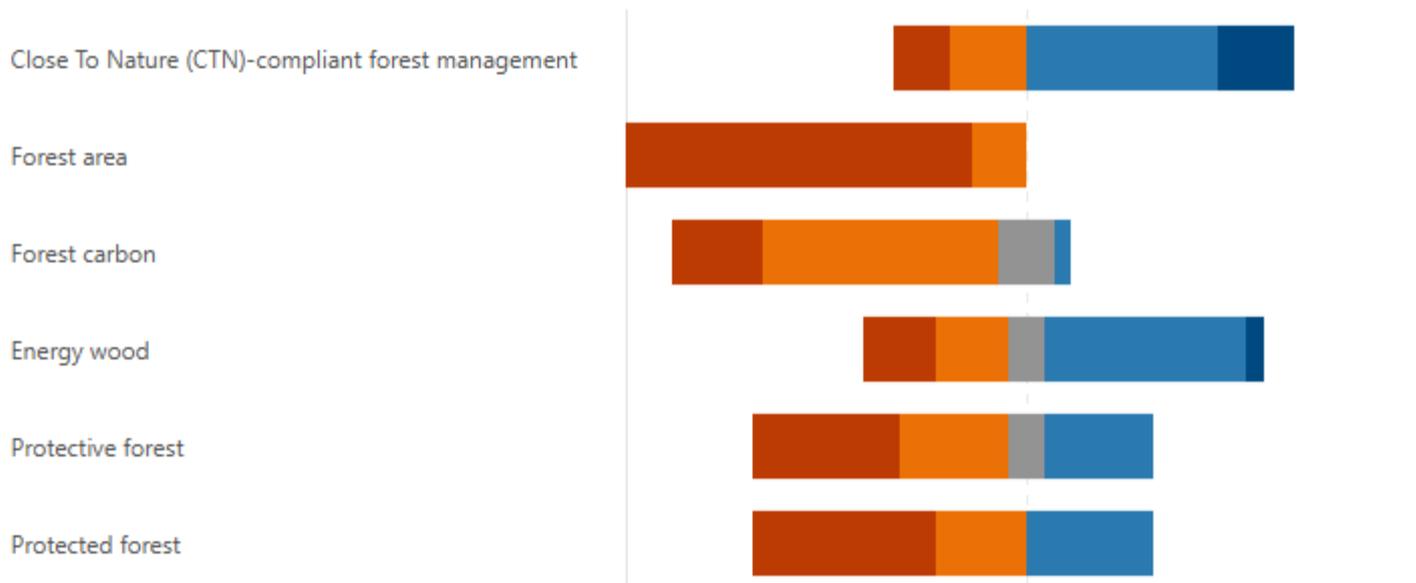


- Utilizing an NFI-based forest resource map as a possible solution

Questionnaire EU data needs (22) 1

10. Forest strategy of the EU.

- Directly measured
- Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty
- Information needs not fulfilled by NFI today
- European definition missing



Questionnaire EU data needs (22) 2

10. Forest strategy of the EU.

- Directly measured ■ Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty ■ Information needs not fulfilled by NFI today
- European definition missing

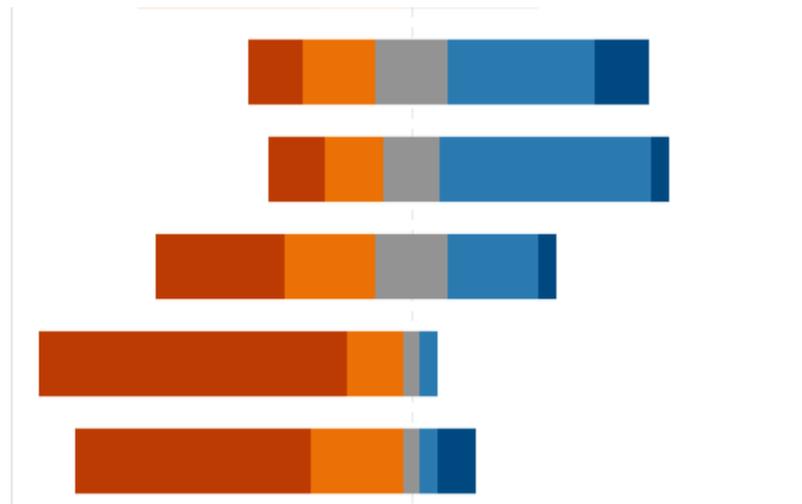
Forest Services

Non-wood goods

Soil conditions

Forest damage

Naturalness



Questionnaire EU data needs (22) 3

10. Forest strategy of the EU.

- Directly measured
- Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty
- Information needs not fulfilled by NFI today
- European definition missing



Questionnaire EU data needs (22)

12. Renewable energy directive

- Directly measured ■ Indirectly derived, using reliable methods
- indirectly assessed or derived using models with uncertainty ■ Information needs not fulfilled by NFI today
- European definition missing

Data on primary and old-growth forests



- Field observations are used to contribute to the validation of mapping

Questionnaire EU data needs (22)

14. Revision of the LULUCF- regulation (2021-2035). Changes in:

- Directly measured ■ Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty ■ Information need not fulfilled by NFI today
- European definition missing

Living biomass above ground



Living biomass below ground



Dead wood



Litter



Soil carbon

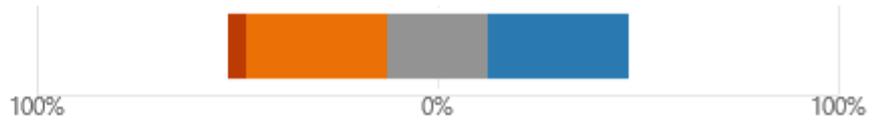


Questionnaire EU data needs (22)

14. Revision of the LULUCF- regulation (2021-2035). Changes in:

- Directly measured
- Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty
- Information need not fulfilled by NFI today
- European definition missing

Harvested wood products



Questionnaire EU data needs (22)

17. Proposal for regulation on deforestation-free products.

- Directly measured ■ Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty ■ Information needs not fulfilled by NFI today
- European definition missing

data on clearing forest for agricultural use



data on degradation of forests



Questionnaire EU data needs (22)

21. EU nature restoration legislation

- Directly measured
- Indirectly derived, using reliable methods
- Indirectly assessed or derived using models with uncertainty
- Information needs not fulfilled by NFI today
- European definition missing

Standing deadwood

Lying deadwood

Share of forests with uneven-aged structure

Forest connectivity

Common forest bird index

Stock of organic carbon



Questionnaire EU data needs (22)

22. Eurostat (see EFA questionnaire (<https://ec.europa.eu/eurostat/web/forestry/methodology>)). Does the NFI provide data directly? If data is provided, would that be via Focal point or via national focal point?
 23. FAO GFRA (<https://www.fao.org/forest-resources-assessment/en/>). Does the NFI provide data directly? If data is provided, would that be via Focal point or via national focal point?
 24. Forest Europe (<https://foresteurope.org/state-of-europes-forests/>). Does the NFI provide data directly? If data is provided, would that be via Focal point or via national focal point?
- Most of the NFIs provide data via a national focal point
 - There are countries where NFIs are the national focal point



European National Forest Inventory Network

Thank you very much!

Information on forests - sound and comprehensive

For more information please visit ENFIN.info



National Forest Inventories (NFIs) represent comprehensive, reliable, large-scale monitoring systems. ENFIN serves as a European network to promote NFIs, harmonise forest information and support decision makers in a broad range of forest related policies.

The overall objectives of ENFIN are to

- provide a platform for the harmonisation of forest inventory information at European scale
- optimise synergies between NFIs and promote new knowledge and enhanced methods
- support forest policies with harmonised forest information and adapt data collection to new emerging policy needs.