

European National Forest Inventory Network

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Forest Protection Conference

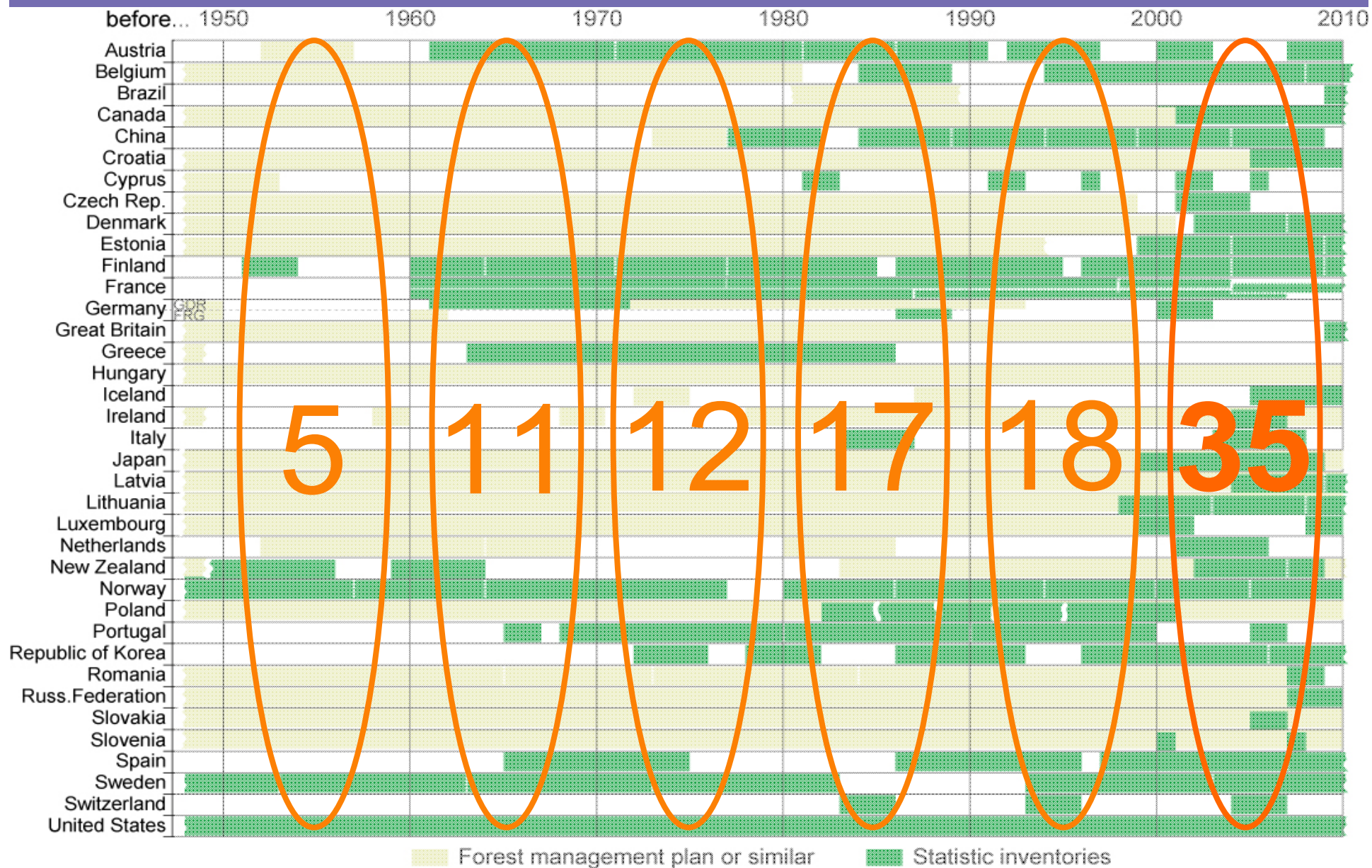
April 6th-7th 2010, Valsain, Spain

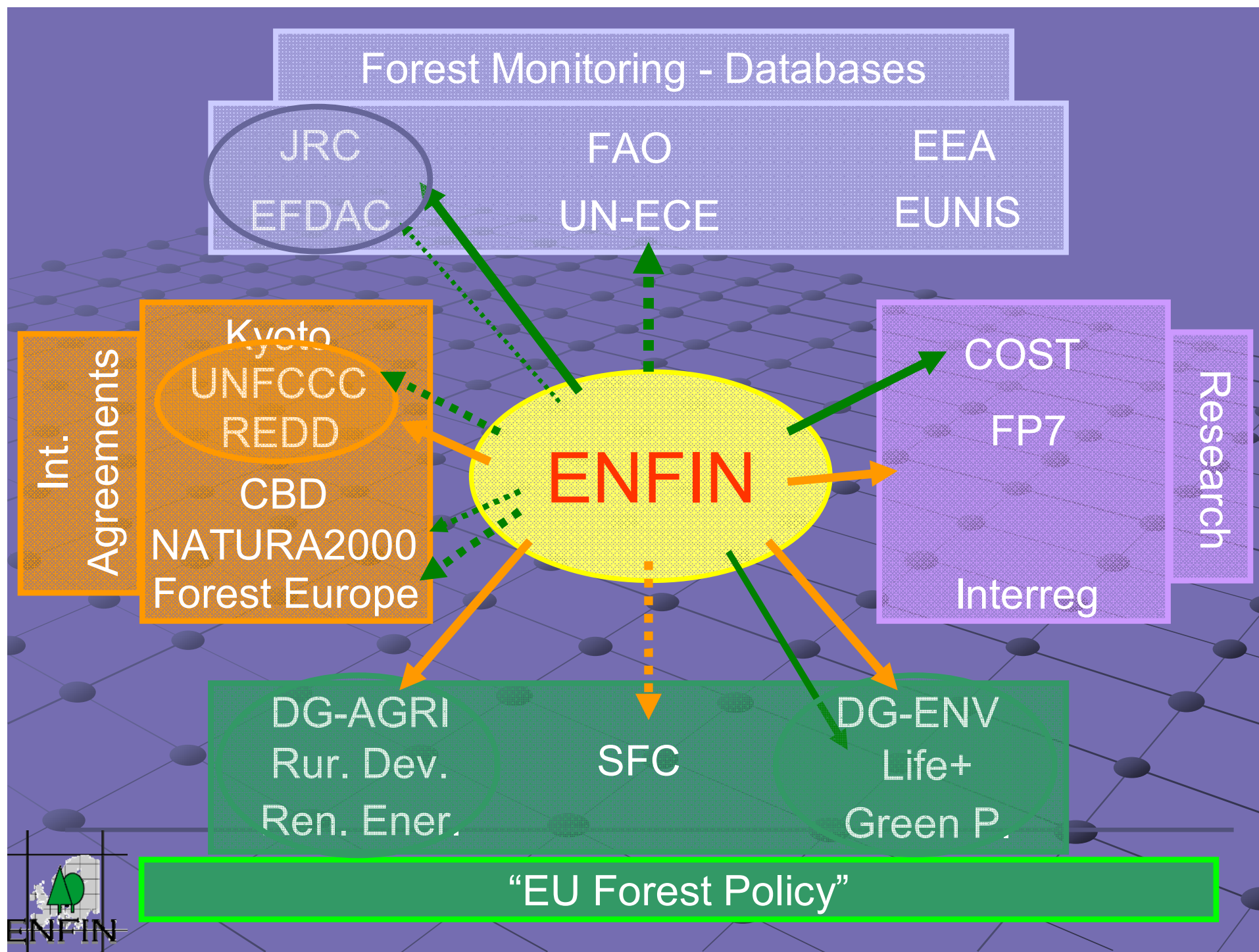


Forest information within EU countries

- National forest information requirements
 - over 500 000 surveyed plots in forest in Europe
 - Play a major role as national data providers and are part of national forest policy
- National reporting for international processes like MCPFE, UNFCCC, Kyoto, FRA, ...
 - mainly based on NFI data

Global development of NFIs





EU Forest monitoring

- European figures as sum of national reports and other NFI data
 - Comparability ?
 - Variety in definitions and methodologies
- Enhance comparability of NFI results

Harmonisation – Standardisation

Harmonisation

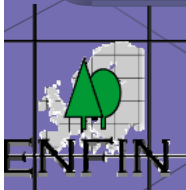
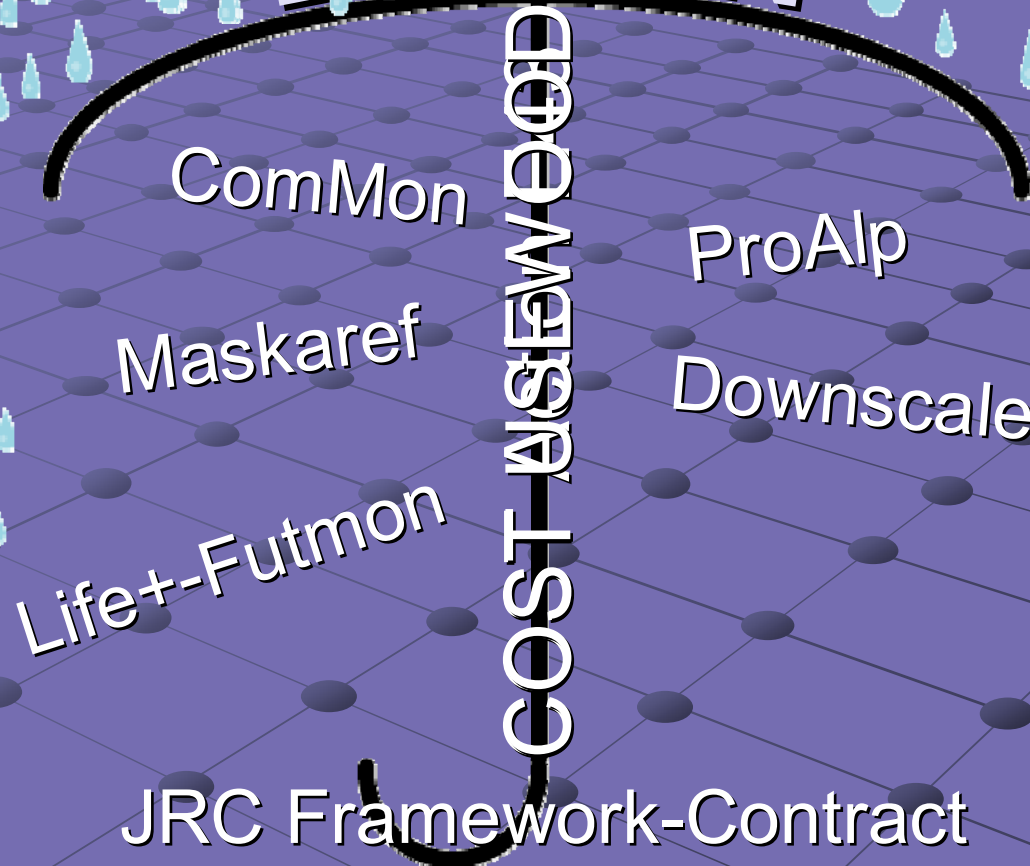
Standardisation



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COST Action E43

1. Harmonised definitions in general (45)
2. Harmonised estimation for carbon pools and changes (16)
3. Harmonised indicators and estimation for components of biodiversity (38)

The way towards harmonisation



Erkki Tomppo · Thomas Gschwantner · Mark Lawrence · Ronald E. McRoberts
Editors
National Forest Inventories
Pathways for Common Reporting

Tomppo · Gschwantner
Lawrence · McRoberts Eds.

Erkki Tomppo
Thomas Gschwantner
Mark Lawrence
Ronald E. McRoberts
Editors

Traditionally the purpose of National Forest Inventories (NFIs) has been to provide continuously updated information regarding the state of a given nation's forest resources, including their timber volumes, species composition and sustainable development. But with increased international reporting requirements – to the FAO, the ITTO, the UN's Framework Convention on Climate Change, the Ministerial Conference Protecting Forest in Europe and other international bodies – the potential role of how NFIs can accurately respond to these requirements has received some considerable attention.

Addressing the issue of how well countries are able to respond to current international reporting requirements, this book discusses the importance of comparable reporting, and the possible approaches for achieving comparability across Europe and globally. It includes country status reports from 37 countries, worldwide, and it discusses methodologies and techniques for a common reporting system.

With its collection of inventories and detailed discussions on the current status and future needs of NFIs, this book provides an invaluable resource for anyone involved in developing, managing, monitoring or contributing to forest inventories, as well as to those who are researching or practising forest resource management.



National Forest Inventories

National Forest Inventories

Pathways for Common Reporting



ISBN 978-90-481-3232-4

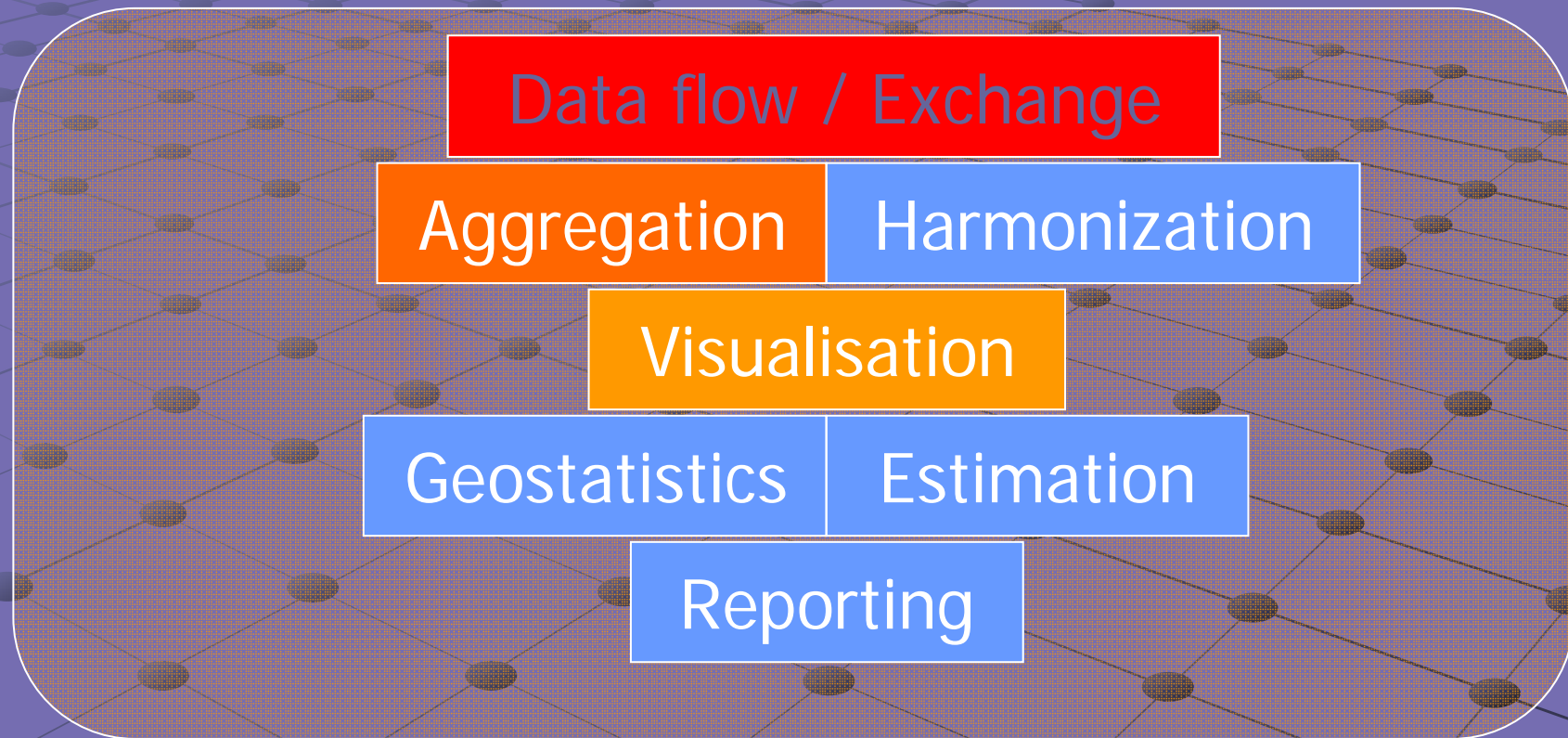


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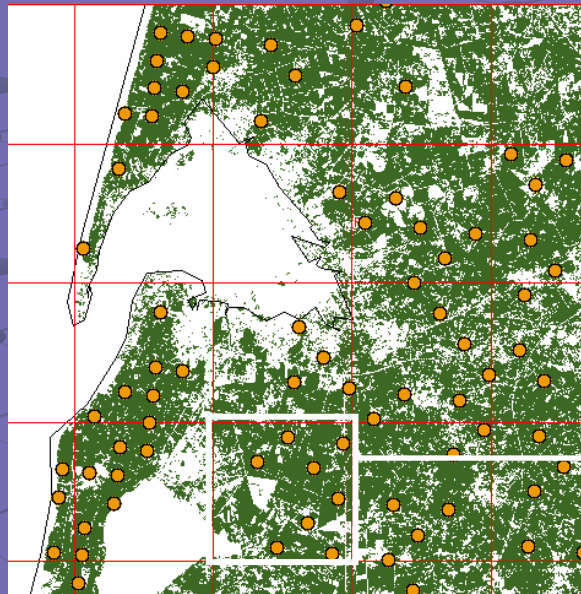
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 Springer

Ongoing work- EFDAC E-forest platform



Aggregation



10 km x 10 km Grid
Landes, France

Data of the
selected plots

	Plot Code	Basal Area
	33527-18080-2-4T	29.18
	33527-18080-2-8T	19.19
	33527-19000-2-2T	15.37
	33527-F8040-2-4T	26.58
	33527-F8060-2-2T	15.19
	33527-F9000-2-6T	25.30
	40527-18060-3-0T	34.45
	40527-F9000-3-0T	26.87

Aggregation,
Interpolation
techniques
(IDW, etc.)
(estimation?)

Storage

aggregated database

Same process
for all the cells

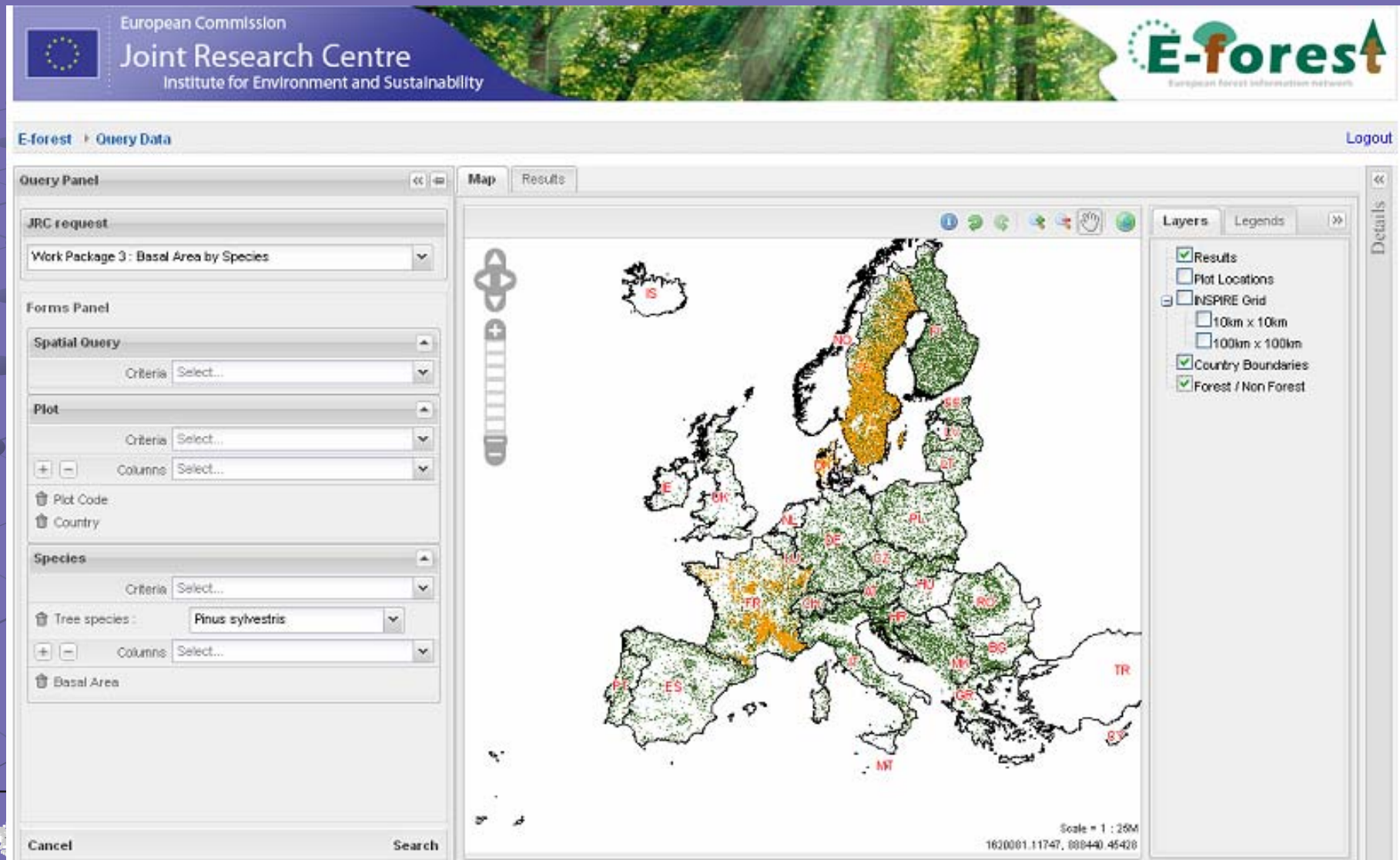


Value of basal
area for this cell

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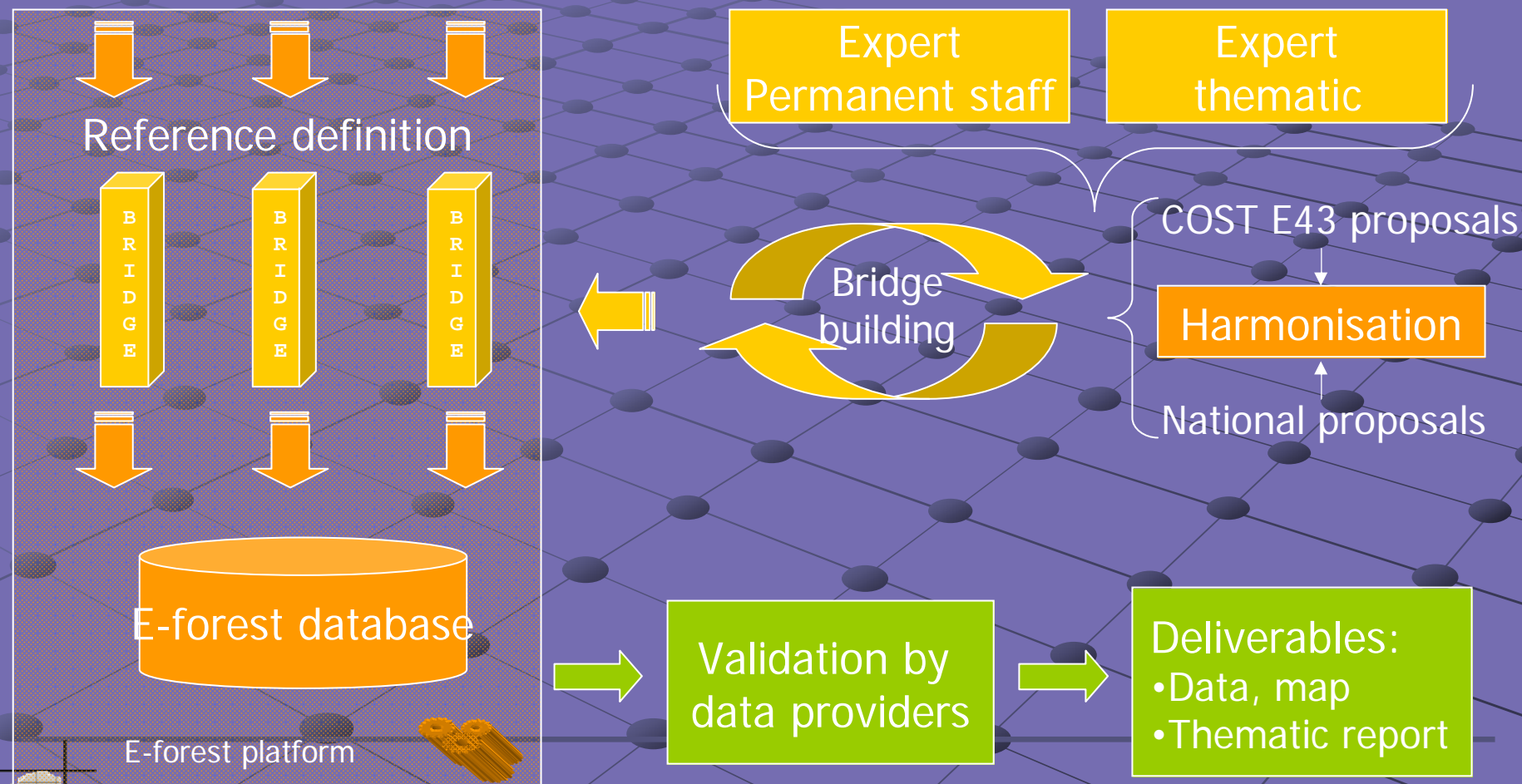
Visualisation



Harmonisation

Data based on national definition

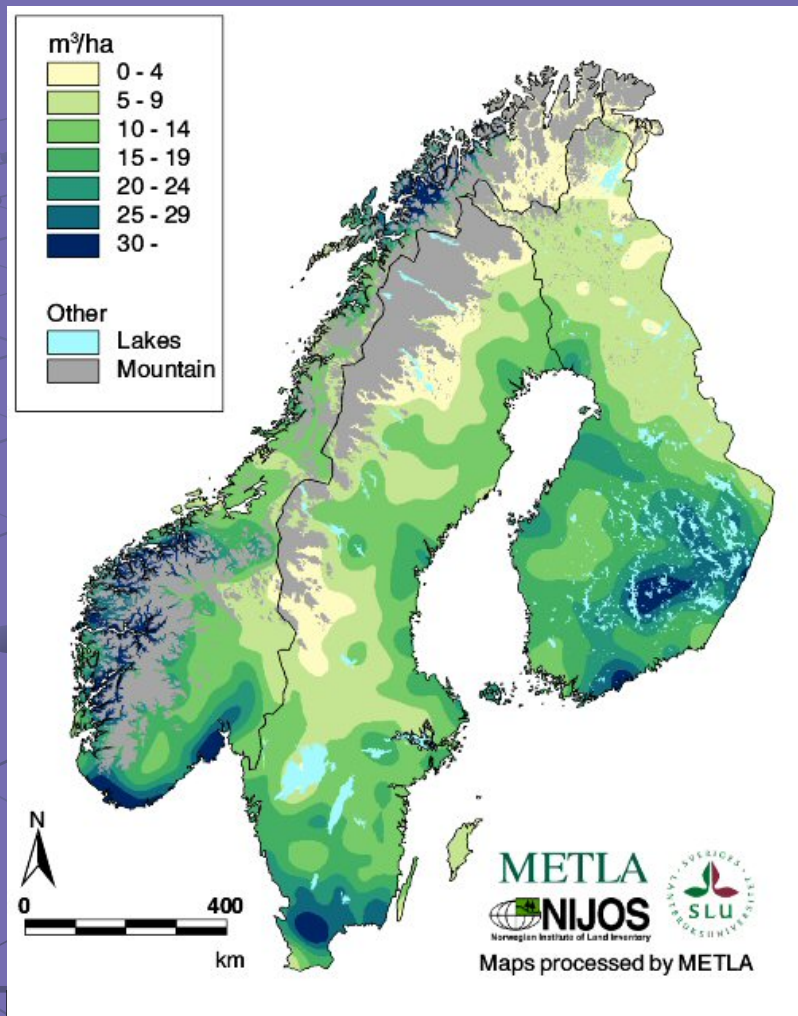
Consortium members



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Geostatistics



Volume of all
broadleaved trees

Estimation

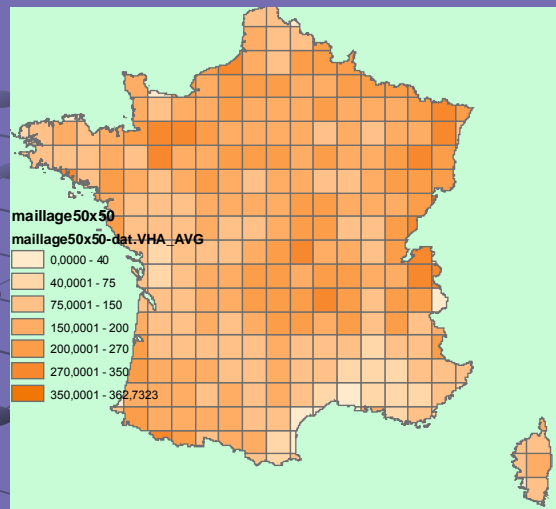
NFI plot data

E-forest
database

Estimator

Java

R

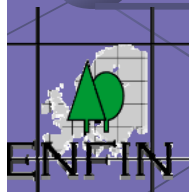


Spatial
representation

Statistic table
with error
estimation

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Reporting

National expertise in reporting



Reporting at European level



European Cooperation in the field of
Scientific and Technical Research

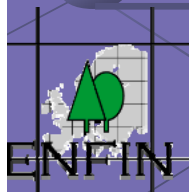
Forest Products and Services



Improving Data and Information on the Potential Supply of Wood Resources

A European Approach from
Multisource National Forest Inventories

Proposal oc-2009-2-5549



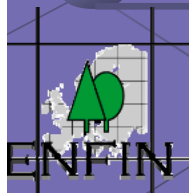
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Issues

- WG1: Assessment and estimation techniques of state and changes in wood resources
- WG2: Improving estimates of wood resources combining RS and NFI field data
- WG3: Predicting the use of wood resources under competitive conditions



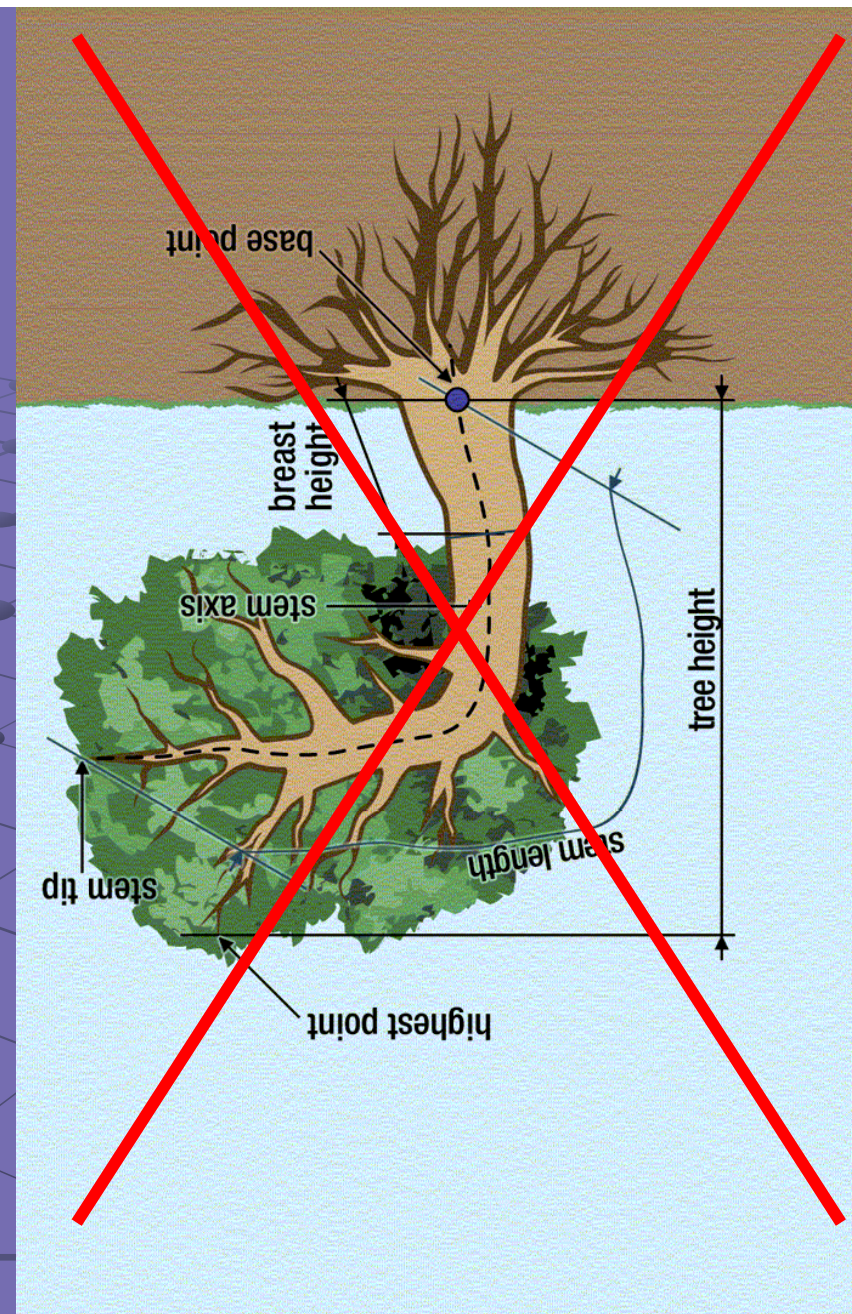
Harmonisation of National Forest Inventories?

Quite possible

A bit tricky

Rather challenging

~~Mission impossible~~



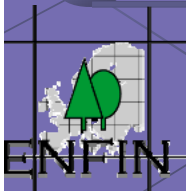
Forest information from NFIs

● National Forest Inventories

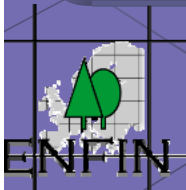
- Funding coming from Member States
- Need to capitalise on this information

⇒ Need for some support for speeding up the harmonisation process

⇒ As a basis of European forest monitoring

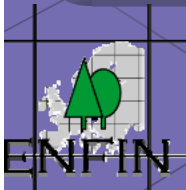


Thank you so much for your attention !



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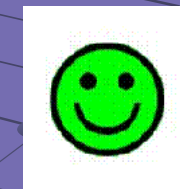
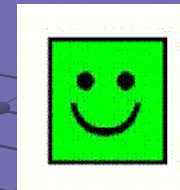


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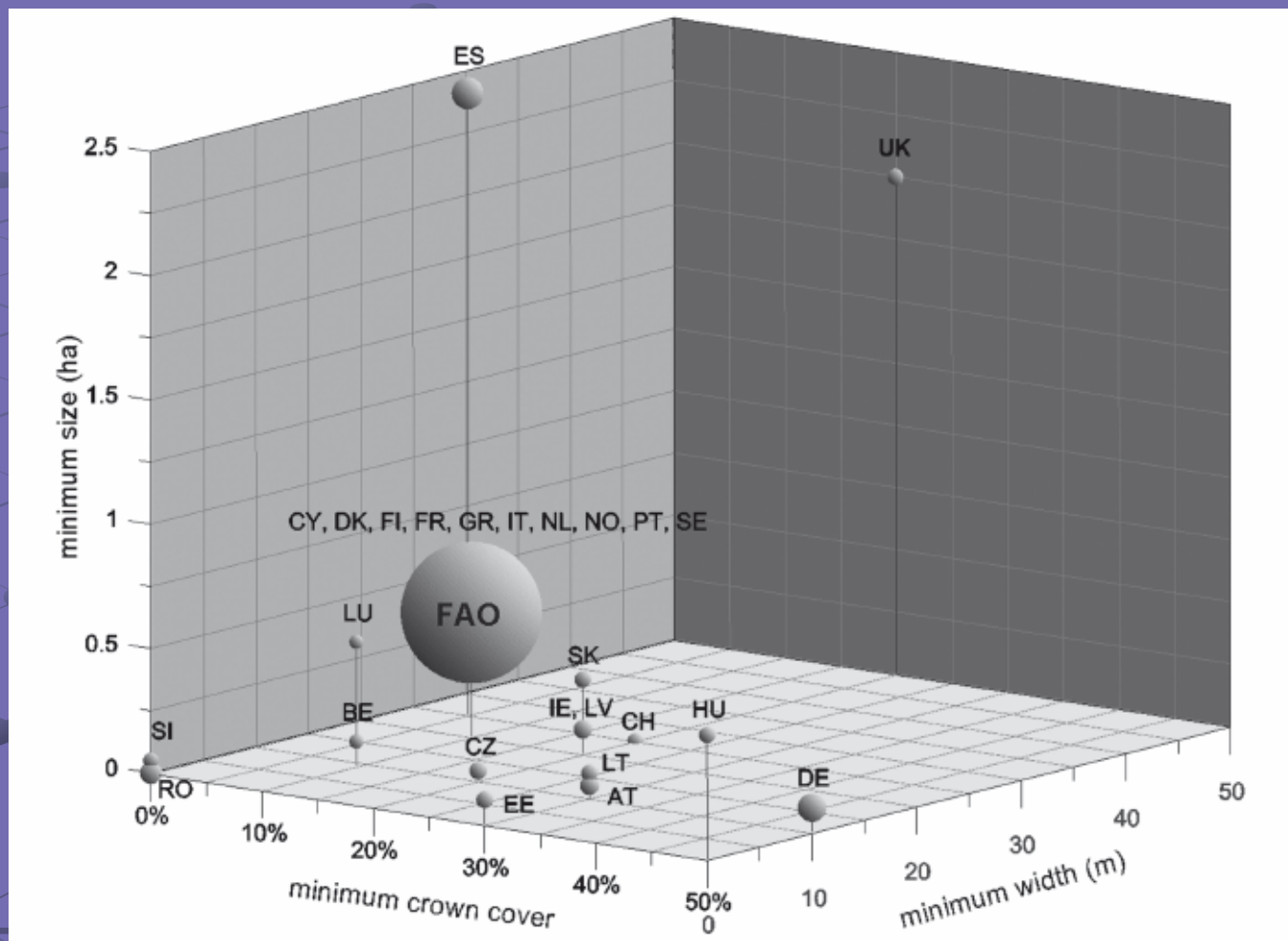
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Current situation of the reference definitions

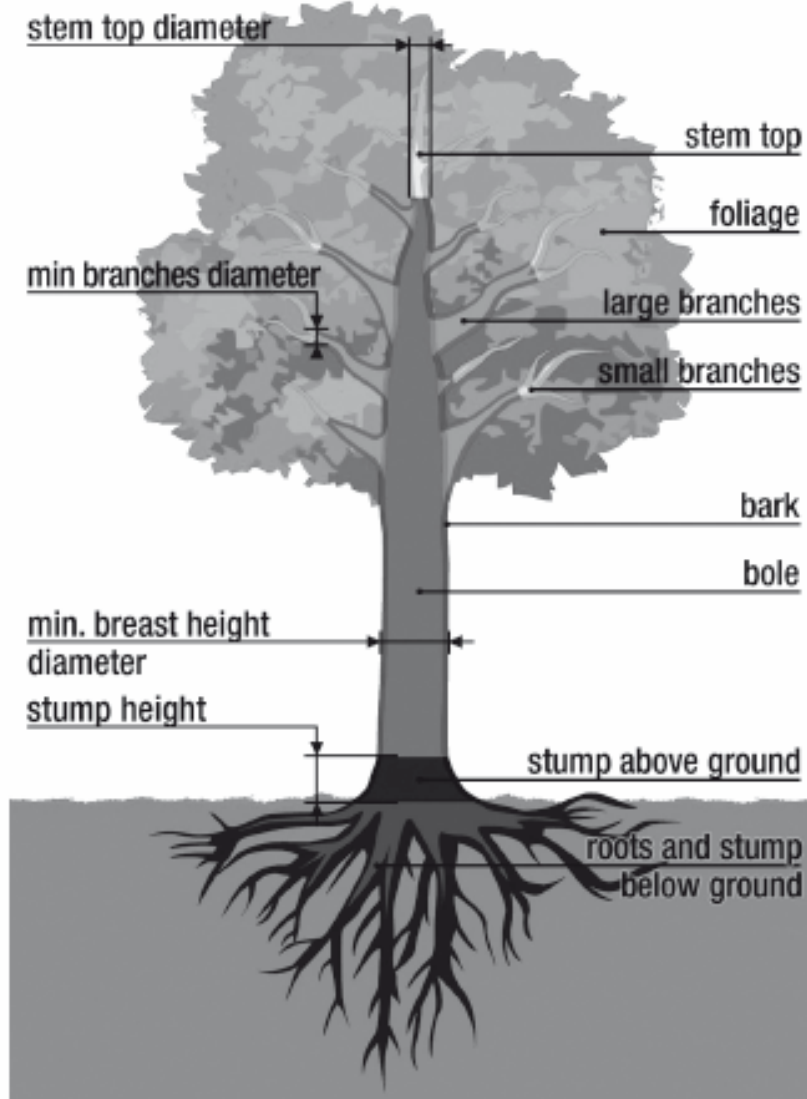
WG1	WG2	WG3
41	4	4
0	11	18
4	1	11
0	0	5



Examples of achievements of the WG1: Reference for forest definition = FAO



WG1: reference for tree definition and its components



WG1: reference for growing stock

“Growing stock is the volume of living and standing stems over a specified land area. Included are stem volumes from the stump height to the stem top and the bark. Branches are excluded.”

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Impacts

● National forest inventories

- Can contribute to a European forest monitoring system
- Have the full advantage of local knowledge
- Have the full advantage of a long time methodological work and time series

● Global impact, similar processes are being built elsewhere with the support of FAO, e.g., Asia process, Montreal process